RETI Stakeholder Steering Committee

Renewable Energy Transmission Initiative

RETI Phase 1B – Resource Report

DRAFT RESOURCE REPORT
B&V Project Number 149148.0020

Contract Manager

University of California, Office of the President
California Institute for Energy and the Environment

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1.0 Executive Summary

Black & Veatch is pleased to provide this report on the resource assessment portion of the Renewable Energy Transmission Initiative (RETI) Phase 1B activities to the Stakeholder Steering Committee (SSC). The purpose of this report is to identify the renewable energy projects and competitive renewable energy zones to be evaluated for the California Renewable Energy Transmission Initiative project.

This report is an interim deliverable for the RETI initiative. In May 2008 the SSC accepted the RETI Phase 1A Report on study methodology, resources and economic assumptions, as well as the methodology to identify and value resources to be included in RETI analyses. This report details the resources and projects for inclusion, as well as the Competitive Renewable Energy Zone (CREZ) areas aggregating the resources. This report also calculates one key component of the resource valuation: the cost of generation. The final report to be prepared by Black & Veatch for Phase 1 of RETI will detail the remainder of the economic valuation of these resources and provide an economic ranking of the CREZs identified in this document. The final report will also detail the transmission requirements and costs to deliver energy from each resource and CREZ to load centers in California, and will include the energy and capacity values of the resources and CREZs. This report will be released in conjunction with an environmental ranking of the CREZs. For more background on RETI, please refer to the Phase 1A report.

1.1 Overview – Projects and CREZs

This report details over 3,600 potentially developable renewable energy projects in California and neighboring regions, with a potential aggregate generating potential capacity greater than 500,000 MW – over six times the current installed capacity for all power plants in California. Additional resources located outside California with the capability of delivering energy to California are also identified in this report. Detailed on Table 1-1, this capacity comes from a variety of generating technologies, with the overwhelming majority of this potential coming from solar resources. However, in general, the other resources are also very large in relation to the requirements of California's renewable portfolio standard.

These resources have been aggregated into 58 CREZs, or aggregations of resources based on the physical and electrical proximity of these resources to each other. The goal in developing CREZs is to identify common transmission solutions to access these resources. For discussion purposes, Black & Veatch has aggregated the identified CREZs into seven resource areas, as depicted on Figure 1-1.

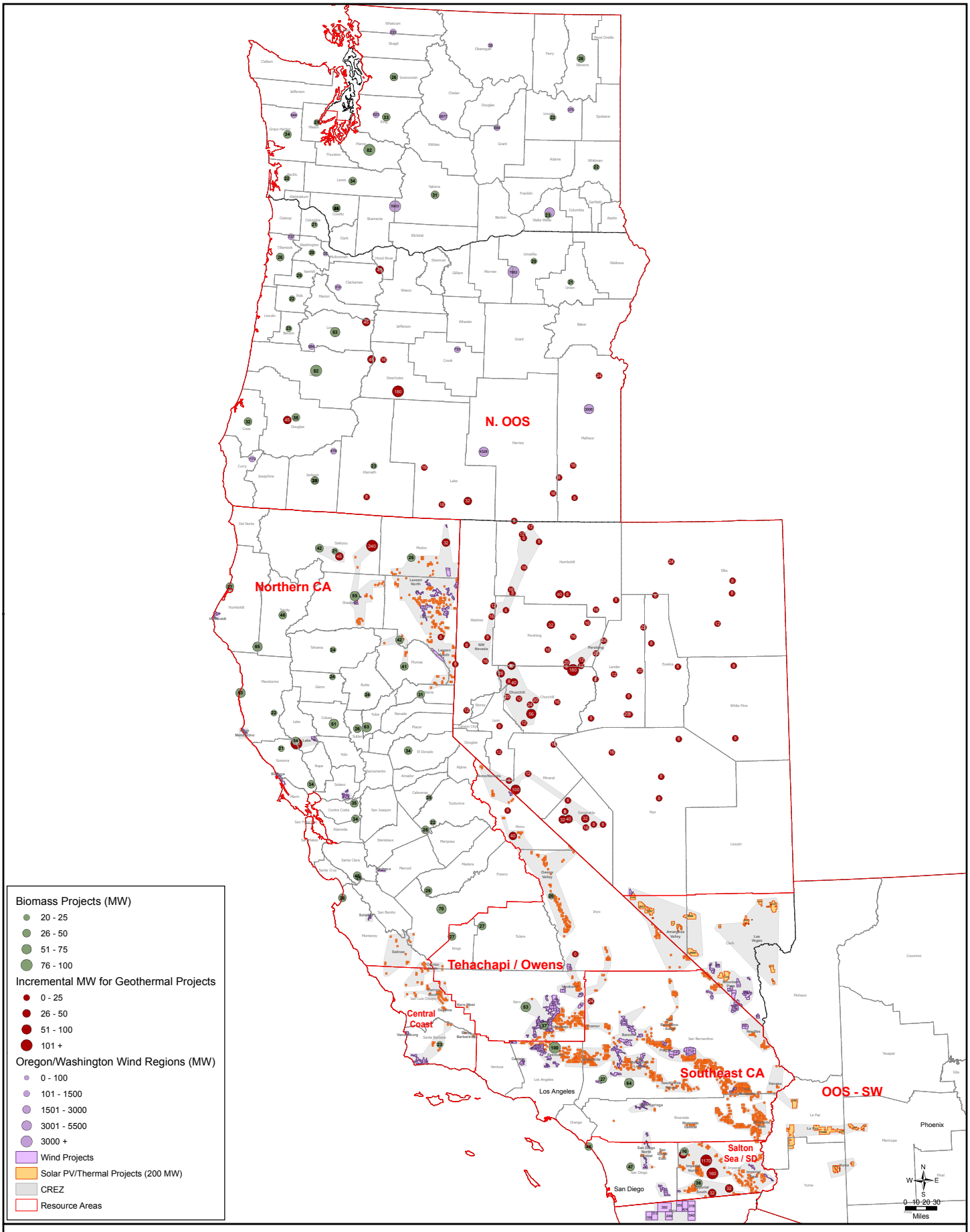
Table 1-1. Summary of RETI projects by Resource Region.

	Biomass	Geo-thermal	Solar PV	Solar Thermal	Wind	Total
Capacity (MW)						
Central Coast	23		920	16,200	552	17,695
North Out-of State	2,423	2,199		2,400	41,982	49,003
Northern California	1,150	468	16,480	40,200	3,341	61,639
South Out-of-State			40	44,679	2,773	47,492
Salton Sea / San Diego	159	1,434	1,640	35,000	1,128	39,361
Southeast California	91		4,020	223,245	6,807	234,163
Tehachapi/Owens	302	72	4,400	74,000	5,721	84,495
Total	4,148	4,173	27,500	435,724	62,304	533,848
Generation (GWh/yr)						
Central Coast	159		2,046	28,554	1,519	32,278
North Out-of State	17,646	16,058		4,696	101,561	139,961
Northern California	8,060	3,437	33,951	63,813	9,854	119,115
South Out-of-State			95	104,400	8,014	112,509
Salton Sea / San Diego	1,112	11,074	3,785	80,977	3,121	100,069
Southeast California	638		9,215	518,622	18,100	546,575
Tehachapi/Owens	2,118	505	9,683	171,038	16,774	200,117
Total	29,733	31,074	58,775	972,099	158,943	1,250,624
Percentage of Generation Total in Each Region						
Central Coast	0.5%	0.0%	6.3%	88.5%	4.7%	100%
North Out-of State	12.6%	11.5%	0.0%	3.4%	72.6%	100%
Northern California	6.8%	2.9%	28.5%	53.6%	8.3%	100%
South Out-of-State	0.0%	0.0%	0.1%	92.8%	7.1%	100%
Salton Sea / San Diego	1.1%	11.1%	3.8%	80.9%	3.1%	100%
Southeast California	0.1%	0.0%	1.7%	94.9%	3.3%	100%
Tehachapi/Owens	1.1%	0.3%	4.8%	85.5%	8.4%	100%
Total	**2.4%**	**2.5%**	**4.7%**	**77.7%**	**12.7%**	100%

Notes:

Out-of-state resources are developable potential, and do not take into account competition for the resources as well as transmission limitations for imports into California. These factors will be accounted for in the transmission and economic modeling.

Potential photovoltaic resources are much larger than shown in this table (and evaluated in this report). The table just includes the potential for enough smaller 20 MW projects needed to satisfy the RPS requirements. Additional solar PV resources, including large scale 150 MW projects, and distributed, retail-scale, are not quantified here.



RETI Resource Map

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RETI - Phase 1B.mxd = August 15, 2008 = C.Holmgren

1.2 Project Identification and Characterization Methodology

Black & Veatch identified developable resources by first identifying projects with demonstrated commercial interest. These projects are known as "pre-identified" projects and came from a variety of data sources, including Bureau of Land Management (BLM) applications, contracts from utilities, and responses to Black & Veatch's generator Request for Information (RFI). Black & Veatch then identified "proxy" projects in areas with resource potential that did not have known commercial interest.

Land identified by the Environmental Working Group (EWG) as precluded from renewable development by law or policy was not considered for project development. Land identified as restricted for renewable development was considered open to pre-identified projects but not proxy projects. Additional restrictions were considered for each resource type to identify suitable land for development. Projects were then identified and characterized on these remaining suitable lands.

The remainder of this Executive Summary summarizes the potential resources. The Phase 1A report identified the following five resources as promising for further consideration in this report:

- Biomass
- Geothermal
- Solar Photovoltaic
- Solar Thermal
- Wind

1.3 Biomass

Direct-fired biomass projects were identified as promising in the Phase 1A report. Biomass resources in California, Oregon, Washington, and British Columbia were included in the Phase 1B assessment. Biomass is unique amongst evaluated resources since the fuel can be transported to the point of best use. The project identification process for biomass focused more on available biomass resources, and less on the actual locations of specific plants. While preliminary sites have been identified for projects, these specific locations are generally not critical to the viability of the facility.

In total, 46 projects were identified in California totaling 1,725 MW, for a total of just over 12,000 GWh/yr of electricity generation. Generation costs, or levelized cost of energy (LCOE), ranged from $114/MWh for a 100 MW urban wood waste project in northeast Los Angeles County, to almost $190/MWh for a 23 MW multi-fuel unit

operating in a region (Santa Barbara County) with high environmental costs.[1] Costs averaged $158/MWh for all biomass generation in the state. Oregon (15 projects, 454 MW) and Washington (14 projects, 450 MW) could contribute up to 6,300 GWh/yr, but due to competition, it will be assumed in the economic modeling that only half of this generation is available for export to California (3,150 GWh/yr). LCOE costs are estimated to be slightly lower than California due to lack of need for emission reduction credits. Finally, PG&E has estimated that there are 1,520 MW of biomass resources estimated to be available in British Columbia.

1.4 Geothermal

Geothermal projects were identified as promising in the Phase 1A report. Geothermal resources in California, Nevada, Oregon, and British Columbia were included in the Phase 1B assessment. For the purposes of the RETI study, geothermal projects have been identified from a variety of public domain information, including government assessments of geothermal potential, research papers and maps by universities and national labs, industry publications and press releases, leasing records, and direct responses from geothermal developers to solicitations for information as part of the RETI process. The focus has been on specific tracts of land about which there is enough public information to make a quantitative estimate of MW potential over a development horizon of about 10 years.

In total, 115 projects were identified for the study region, with 13 of these projects within the state of California. The California projects totaled 1,958 MW of incremental capacity, contributing almost 15,000 GWh of electricity generation. Total estimated incremental capacity is 4,172 MW, with a potential generation of 31,000 GWh.

The vast majority of the geothermal projects identified in this report have a generation cost between $70/MWh and $130/MWh. Most of the projects estimated to cost less than $80/MWh are under active development including signed power purchase agreements to utilities in California and adjoining states. As with the other technologies in this report, these generation cost estimates do not include costs for necessary transmission upgrades.

1.5 Solar Photovoltaic

The potential for large-scale solar photovoltaic (PV) development was identified in the Phase 1A report. The Phase 1B assessment of solar photovoltaic projects focused

[1] Any generation costs discussed in this report are costs of generation alone, and do not include transmission costs, nor do they include any valuation of the energy resource. These components of the resource valuation, as described in the Phase 1A report, will be included in subsequent analysis.

on development of centralized large-scale and distributed utility-scale projects in California. Distributed projects were 20 MW sited close to existing substations, while centralized projects were 150 MW projects sited using the same criteria as solar thermal projects. Smaller customer-sited photovoltaic projects are not directly considered for large-scale transmission upgrades as part of the RETI process, but they are assumed to be installed under the state's solar initiatives.

There were 1,375 distributed solar photovoltaic projects identified in 56 counties in California, for a total of 27,500 MW. These projects are expected to generate 58,775 GWh annually. There were 1,785 large projects identified in California for a total of 267,750 MW. Project generation potential is 623,496 GWh/yr. Cost of generation for the crystalline technology base case ranges from $192 to $285/MWh.

It is important to note that many more thousands of solar PV projects could have been included in the analysis. However, the range of costs in solar PV projects is relatively small, and the selected projects are considered to be representative for the purpose of the analysis.

1.6 Solar Thermal

Large scale solar thermal projects were identified in the Phase 1A report as promising. The focus of the solar thermal assessment was on resources in California, but pre-identified projects in southern Nevada and western Arizona were also included in the Phase 1B assessment.

A total of 1,785 projects were identified in California, representing 357,000 MW of generating capacity and more than 790,000 GWh of annual electricity generation. Of those projects, 689 were pre-identified, 40 were designated as wet cooled, and 196 contain non-prime agricultural land protected by the Williamson Act.

Generation costs ranged from $133/MWh to near $300/MWh, which is a large range. Costs are concentrated around the $167/MWh average, however. Nearly three quarters of the costs fall between $145 and $200/MWh. An additional 33 projects were identified in Nevada and Arizona, representing 79,000 MW of generating capacity and more than 182,000 GWh of annual electricity generation. The average cost of generation, $161/MWh, is very near the California average.

1.7 Wind

Wind resources were identified as promising throughout much of the RETI study region the Phase 1A report. In Phase 1B, wind resources have been characterized in California, southern Nevada, Oregon, Washington, British Columbia, and the northern portion of Baja California.

Black & Veatch identified 131 wind projects in California with a total of 16,127 MW of capacity. These projects are expected to produce 46,298 GWh of electricity annually. Of these, 62 projects were pre-identified, representing 8,345 MW. The other 69 projects representing 7,782 MW were proxy projects.

Black & Veatch also identified 46,190 MW of capacity and 112,694 GWh of energy production outside the state. These figures represent capacity that Black & Veatch concludes could be available to serve California load. While these resources were considered developable, this does not mean they will be available to export to California due to local competition for the resource.

1.8 Competitive Renewable Energy Zones

The analysis identified 58 competitive renewable energy zones (CREZs) in the RETI study area, including 47 in California and 11 outside of California. For purposes of discussion, the CREZs have been aggregated into seven resource areas. The projects, resource areas and CREZs are shown in Figure 1-1.

1.9 Use and Purpose of this Report

This draft report is intended to provide the SSC and RETI public participants with the resource information that will be used in RETI and to solicit feedback on the resource and CREZ identification. This is intended to be a living and working document. Resources change and the RETI process will incorporate new information as it becomes available. Accordingly, RETI participants are requested to provide comments on the resource identification and CREZ development. Accepted revisions will be incorporated into the RETI analysis.

Black & Veatch notes there are known gaps in the resource listing. A primary data source that RETI has relied on for commercial project identification is the U.S. Bureau of Land Management's (BLM) land lease database, which was provided by the BLM to Black & Veatch in May 2008. Black & Veatch became aware on August 12, 2008 that the BLM had done a major update of its list of projects; however, it was too late to include these in this report. In the final analysis and report delivered in September, an updated BLM database will be used.

2.0 Introduction

The objective of this report is to identify the renewable energy projects and competitive renewable energy zones to be evaluated for the California Renewable Energy Transmission Initiative project. This section provides a brief background and overview of this report.

2.1 Background

This report is an interim deliverable for the RETI initiative. In May 2008 the SSC accepted the RETI Phase 1A Report on study methodology, resources and economic assumptions, as well as the methodology to identify and value resources to be included in RETI analyses. This report details the resources and projects for inclusion, as well as the Competitive Renewable Energy Zone (CREZ) areas aggregating the resources. This report also calculates one key component of the resource valuation: the cost of generation. Figure 2-1 shows the relationship of the material in this report to the overall RETI Phase 1 process.

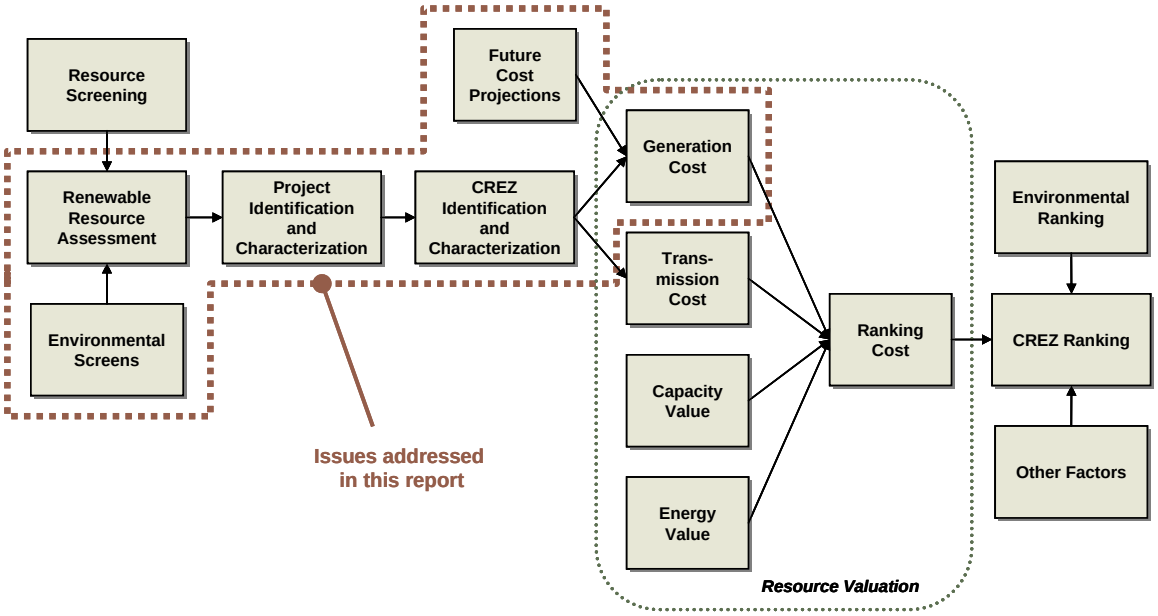

Figure 2-1. Overview of RETI Phase 1 Methodology.

The final report to be prepared by Black & Veatch for Phase 1 of RETI will complete the remainder of the economic resource valuation process and provide an economic ranking of the CREZs identified in this document. The final report will also detail the transmission requirements and costs to deliver energy from each resource and CREZ to load centers in California, and will include the energy and capacity values of the

resources and CREZs. This report will be released in conjunction with an environmental ranking of the CREZs. For more background on RETI, please refer to the Phase 1A report.

2.2 Approach

In identifying individual projects for RETI, Black & Veatch used the methodology approved by the SSC and described in the RETI Phase 1A report. This report provides an overview of the methodology used for project identification for each resource at the beginning of each resource section.

CREZ development and identification is based on the physical location and electrical interconnection of resources. The CREZs identified in this report are based on a "first-pass" of identifying interconnection points for resources without consideration of the economics of the resources. After the economic analysis of the CREZs, taking into account the transmission costs and the value of the resources, the CREZ will be divided into sub-CREZs that reflect the economics of the resources in the CREZ.

2.3 Report Organization

Following this Introduction, this report is organized into the following sections:

- **Section 3 – Methodology and Assumptions:** This section describes the common assumptions and methodology for project identification and characterization.
- **Section 4 – Biomass:** Direct-fired biomass projects were identified as promising in the Phase 1A report. Biomass resources in California, Oregon, Washington, and British Columbia were included in the Phase 1B assessment. This section characterizes the resources suitable for development.
- **Section 5 – Geothermal:** Geothermal projects were identified as promising in the Phase 1A report, and geothermal resources in California, Nevada, Oregon, and British Columbia were included in the Phase 1B assessment. This section characterizes the resources suitable for development.
- **Section 6 – Solar Photovoltaic:** The potential for large-scale solar photovoltaic development was identified in the Phase 1A report. The Phase 1B assessment of solar photovoltaic projects focused on development of centralized large-scale and distributed utility-scale projects in California. This section describes the assessment.
- **Section 7 – Solar Thermal:** Large scale solar thermal projects were identified in the Phase 1A report as promising. Solar thermal resources in California,

southern Nevada, and western Arizona were included in the Phase 1B assessment. This section characterizes the resources suitable for development.

- **Section 8 – Wind:** This section details Black & Veatch's approach to the identification of wind projects for the purposes of RETI analysis. Wind resources were identified as promising throughout much of the RETI study region the Phase 1A report. In Phase 1B, wind resources have been characterized in California, southern Nevada, Oregon, Washington, British Columbia, and the northern portion of Baja California. This section discusses the methodology used to characterize the resources suitable for wind technology.
- **Section 9 – Competitive Renewable Energy Zones:** This section identifies the competitive renewable energy zones identified in the RETI study area.

2.4 Accompanying Maps

In addition to this summary report, a series of high-resolution maps has been produced to show the results of the resource screening and project identification process. The following maps are available for download at project website, www.energy.ca/reti:

Resource Exclusion Maps

- General resource exclusions
- Solar PV resource exclusions
- Solar thermal resource exclusions
- Wind resource exclusions

Project Identification Maps

- Biomass
- Geothermal
- Solar PV
- Solar thermal
- Wind

CREZ/Resource Region Maps

- Competitive Renewable Energy Zones
- Resource regions

The resource regions map is included as Figure 1-1 of this report.

3.0 Methodology and Assumptions

This section describes the common assumptions and methodology for project identification and characterization. Technology-specific assumptions are presented in the chapters following this one.

3.1 Project Identification

To identify individual projects for RETI, Black & Veatch implemented the methodology detailed in the Phase 1A report and in the resource chapters of this report. The main steps of the process are shown in Figure 3-1.

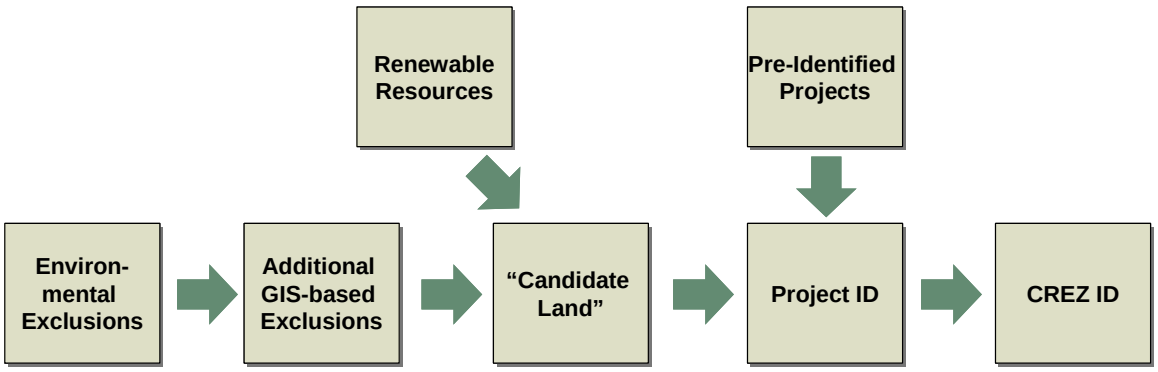

Figure 3-1. Project Identification Process.

The first step in this process was to develop a detailed set of environmental exclusion areas which indicated (1) areas completely off-limits for development and (2) areas where development is not preferred. These environmental exclusions where then combined with additional land use exclusions (such as airports, military bases, and urban areas) using graphical information systems (GIS) software. Information about the underling renewable resources was combined with this dataset to identify "candidate land" for development.

A parallel process was undertaken to identify all proposed projects and potential projects where commercial interest has been expressed. These projects were assembled from a variety of public data sources including generator and market participant information submittals, BLM applications, commercial databases and power purchase agreements (PPAs) with utilities. These projects are known as "**pre-identified projects**".

It is important to note that the pre-identified projects have not been directly modeled in this report. Rather, Black & Veatch has identified resources in the same vicinity of the project. Sometimes the boundaries of Black & Veatch's projects match

the pre-identified project boundaries, in other cases a portion of the boundaries overlap or the projects are nearby.

The next step was to supplement the set of resources with **"proxy projects"** using the project identification criteria detailed in the resource chapters of this report and applying the exclusion criteria discussed above. This data was then validated with interconnection queue data to insure that sufficient projects had been identified in a given area. Each of these steps are discussed in further detail below or in the following chapters of this report.

Black &Veatch identified over 3,600 projects to be included in the RETI assessment. These projects total over 500 GW of capacity potential and 1.25 million GWh of generation potential.

3.2 Exclusion Areas

In the identification of resources and CREZs, Black & Veatch used a series of screens to filter out land and resources that would not be appropriate for development and should not be part of the RETI analysis. This includes land that is environmentally or culturally sensitive, restricted for military purposes, and inappropriate for certain types of development (such as wind development near airport runways). Most of the screens were applicable to all resources, though some screens were applicable only to certain technologies.

To develop the screens, Black & Veatch solicited and received input from a variety of sources. Environmental, cultural and land use screens were vetted by the Environmental Working Group and provided to Black & Veatch, while military restrictions on development were provided by the military. In developing screens impacting specific types of resources, such as defining developable land for solar thermal resources, Black & Veatch consulted with developers and stakeholders in those industries. Table 3-1 is a discussion of the screens that were applied in the resources identification process.

Table 3-1. Excluded Lands for RETI.

	Geo-thermal	Solar PV	Solar Thermal	Wind	Notes
Environmental black areas	Yes	Yes	Yes	Yes	
Environmental yellow areas	Yes*	Yes*	Yes*	Yes*	*Pre-identified projects OK
Wetlands and water bodies	Yes	Yes	Yes	Yes	Dry lakes not excluded
Native American reservations	Yes*	Yes*	Yes*	Yes*	*Pre-identified projects OK
Military lands	Yes*	Yes*	Yes*	Yes*	*Pre-identified projects OK
Mines (surface)	Yes	Yes	Yes	Yes	
Urban areas	Yes	Yes, +buffer	Yes, +buffer	Yes, +buffer	buffer up to 3 miles depending on population
Airports	Yes	Yes	Yes	Yes, +buffer	Major airports only. Wind buffer is up to 5 miles.
Military flyways	No	No	No	Yes* (Red)	*Pre-identified projects OK in red zones. All other open.
Williamson Act Prime Agricultural Land	No	Yes*	Yes*	No	*Pre-identified projects OK
Williamson Act Non-Prime Agricultural Land	No	Yes**	Yes**	No	**Excluded until 2018, pre-identified projects OK
Renewable resource quality	No	No	< 6 kWh/ m^2/day	< 6.3 m/sec	
Min. contiguous square acreage	No	160	1280	none	640 acres = 1 section = 1 square mile
Land slope	No	> 5%	> 2%	> 20%	Geothermal evaluated on case by case basis
Note: Because biomass plants have very high siting flexibility, explicit land exclusions were not applied. Biomass plants can be easily moved to avoid sensitive areas.					

Figure 3-2 shows a comparative example of the exclusions applied near the Tehachapi area for wind and solar thermal resources. The land on these maps that is shown in white is known as "candidate land". This is land that has passed all environmental, land use, resource, and other restrictions. Full scale maps are available for download at the project website (www.energy.ca/reti) for the following resources:

- General resource exclusions
- Solar PV resource exclusions
- Solar thermal resource exclusions
- Wind resource exclusions

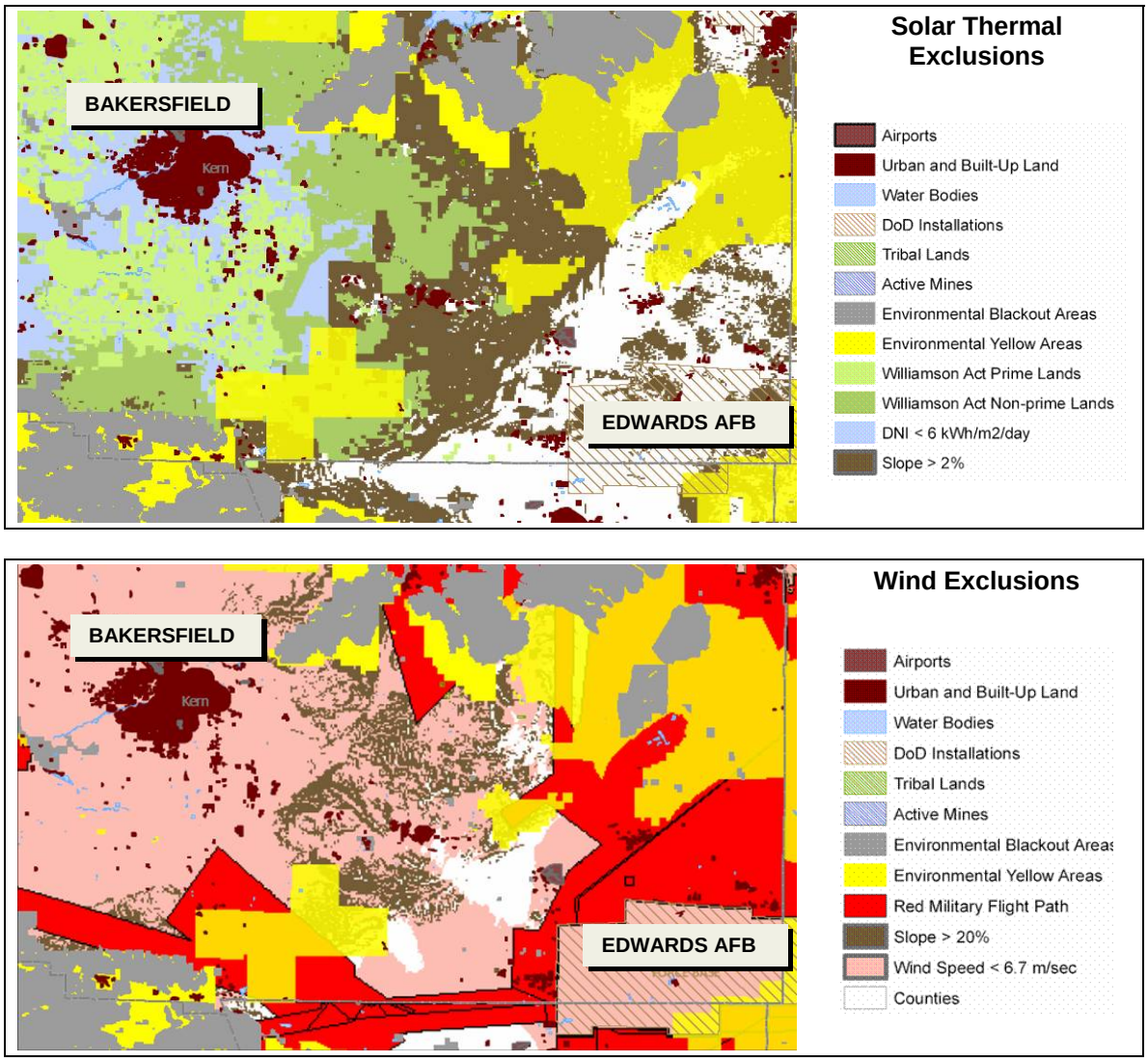

Figure 3-2. Example of Wind and Solar Thermal Exclusions Near Tehachapi.

The exclusions have simply been applied for the purposes of determining potential developable resources. It is very important to emphasize that these land exclusions do not imply, impose, or even recommend any absolute restriction on use of lands. Conversely, candidate lands shown as "open" for development should not necessarily be assumed to be appropriate for siting plants either. All projects will still need to proceed through all local, state, and federal permitting processes; RETI does not supercede these authorities. Finally, much of the land identified as part of this assessment is privately owned. The decision on what the landowner considers "best use" is often a very personal one, and RETI does not intend to interfere with these decisions in any manner.

3.2.1 Environmental Exclusions

Working collaboratively, the EWG developed an extensive set of environmental screening criteria for RETI projects. Screens were categorized as either Category 1 or Category 2 lands, with Category 1 lands (also referred to as "black-out areas") including areas that prohibit energy development by law or policy. Category 2 lands (or "yellow-areas") represent lands with sensitive or critical habitat where development is restricted but not prohibited. For the-purposes of resource assessment and project identification, Black & Veatch sited no projects on Category 1 lands[2], and only included pre-identified projects on Category 2 lands. A listing of black-out and yellow areas is provided in Table 3-2. The exclusion maps included as part of the Phase 1B deliverables show these areas graphically.

3.2.2 Agricultural Lands (Williamson Act)

The Williamson Act helps to preserve agricultural and open space lands in California from premature development. The Williamson Act creates an arrangement whereby private landowners contract with counties and cities to voluntarily restrict land to agricultural and open-space uses. The vehicle for these agreements is a rolling term 10-year contract that provides for preferential property tax treatment. Nearly all of California's agricultural counties participate in the program, and there are currently 16.9 million acres are enrolled in the program. Black & Veatch was able to obtain GIS data on Williamson Act lands in most counties that participate in the program.

The Williamson Act only affects the assessment of solar resources. Biomass, geothermal and wind development require relatively small footprints and can likely be developed in a manner that is still compatible with the agricultural mission. Development of these resources would most likely be permitted on Williamson Act lands. Solar development, however, would preclude agricultural use.

The use of agricultural lands for energy development issue is a sensitive topic, and the EWG was unable to reach definitive consensus on this issue. The working assumption provided to Black & Veatch was to generally exclude Williamson Act lands for consideration for proxy projects with one exception. Proxy solar projects are allowed on non-prime Williamson Act farmland (as defined by the Department of Conservation) after 2018. This timeframe was chosen due to the time it takes for Williamson Act contract to expire. As with similar Category 2 exclusions, pre-identified projects have been allowed on Williamson Act lands at any time.

[2] There is one Palm Springs wind project that is an exception this statement. This project has been specifically grandfathered into the monument language for the Santa Rosa/San Jacinto National Monument.

Table 3-2. Environmental Screens.

Category #1 — Areas where law or policy currently prohibits renewable development (mapped as black areas)

- Designated federal Wilderness areas and wilderness study areas; CA Wilderness Areas
- Units of the National Park
- US Forest Service Inventoried Roadless Areas
- National historic and scenic trails
- National wild, scenic and recreational rivers
- National Wildlife Refuges
- California State Parks
- Department of Fish and Game wildlife areas and ecological reserves
- BLManagement National Conservation Areas: King Range National Conservation Area, Black Rock-High Rock National Conservation Area, and Headwaters Forest Reserve.
- Private Preserves of The Wildlands Conservancy.
- Bureau of Land Management national monuments
- Existing conservation and mitigation banks under conservation easement approved by the CA Department of Fish and Game, U.S. Fish and Wildlife Service or Army Corps of Engineers
- California Wetlands

Category #2 — Areas where existing restrictions are expected to limit potential renewable development (mapped as yellow areas)

- Lands precluded from development in Habitat Conservation Plans Lands precluded from development under Natural Community Conservation Plans
- Bureau of Land Management Areas of Critical Environmental Concern
- Designated critical habitats for federally listed endangered and threatened species
- Special wildlife management areas in West Mojave
- Lands purchased with private funds and donated to the federal government.
- Proposed and potential conservation reserves in Habitat Conservation Plans and Natural Community Conservation Plans
- Lands specified as of May 1, 2008 in Proposed Wilderness bills

3.2.3 Forest Service Lands

National Forest lands managed by the U.S. Forest Service (USFS) have some areas of development potential, generally for wind. The land management plans of the four Southern California forests were recently updated, and certain land use zones were deemed "suitable" for "Renewable Energy Resources" activity, but these changes are controversial.

There are two USFS forests that currently have wind testing activities. However, there are no forests in California with active solar, wind or geothermal generation. Furthermore, the USFS has denied, in at least one case, an application for wind energy

development in a "suitable" area, finding that the area was better suited for recreational use.

There was no consensus by the EWG regarding the categorization of this land. For purposes of this report, USFS land was treated consistent with Category 2, or yellow-designated areas. Four pre-identified wind projects on forest land were included in the assessment, but Forest Service land was not assumed to be generally open for renewable development.[3]

3.2.4 Tribal Lands

There are numerous Native American tribal areas in California and the determination to develop these rests with the tribes owning these lands. Several tribes were contacted but there was no universal policy direction regarding how RETI should consider development of this land. For the project identification process, RETI considered tribal lands as Category 2 (yellow) areas; pre-identified resources were allowed on tribal lands, but no proxy projects were allowed.

3.2.5 Military Exclusions

The western U.S. and California host extensive military facilities, including active bases. There were two types of exclusions applied for the project identification process: (1) active military bases and (2) flight zones.

- **Military Bases** – Only pre-identified projects are allowed on base properties. The Department of Defense provided a list of potential projects for consideration (see the next section). This restriction applies to all resources.
- **Flight Zones** – Tall structures can potentially impede military flight operational activities. The Department of Defense has developed a color coding system (Red-Yellow-Green) for air space to identify the review requirements for tall structures. For RETI, this only impacts identification of wind projects. Red land designations are the most restrictive, and projects may not be allowed in red areas. However, the exclusion is not categorical, and for this reason red lands are treated as Category 2 lands. The military's other designations (yellow and green air space) were not included as exclusions.

[3] This restriction does not apply to biomass resources. While no biomass projects have been sited in USFS land, there is the potential that biomass resources may be drawn from forest lands as part of approved forest fire threat reduction and other approved activities.

3.2.6 Other Exclusions

Other development restrictions were generally applied to all resources including wetlands and water bodies, urban areas, and active mines. Development of larger renewable energy projects in these areas is generally very difficult or impossible.

3.2.7 Resource Specific Exclusion Zones

In addition to these general exclusions impacting all development projects, RETI has developed exclusion areas that impact certain types of resources. For example, land with slope greater than 2 percent was not considered for proxy solar thermal projects. These exclusions are discussed in the individual resource sections.

3.3 Pre-Identified Projects

As discussed previously, pre-identified project information came from a variety of sources. Table 3-3 summarizes the information received on pre-identified projects, and the specific data sources are discussed further below.

Table 3-3. Pre-Identified Resources by Source and Resource Type (All locations)

	Biomass		Geothermal		Solar PV		Solar Thermal		Wind	
	No. Proj.	MW	No. Proj.	MW	No. Proj.	MW	No. Proj	MW	No. Proj.	MW
PPAs	12	125	9	379	4	15	11	2,129	28	2,903
BLM Apps.	0	0	0	0	32	20,625	100	74,588	144	642[a]
RFIs	1	11	15	1,972	1	52	18	10,340	35	11,421
Military	0	0	1	100	0	0	6	586	0	0
TOTAL[b]	**13**	**136**	**25**	**2,451**	**37**	**20,692**	**135**	**87,643**	**207**	**14,324**
B. Columbia	61[c]	1,520	7	280	0	0	0	0	NA	8,130[d]

Notes:

[a] Most BLM wind applications do not report expected MW, hence this low number.

[b] Totals do not include British Columbia resources which have been identified by Pacific Gas and Electric in a separate study. Numbers are presented here for comparison.

[c] Only aggregate resource data was available for BC biomass. The capital cost per kW of a biomass project depends on the project's size. To estimate capital costs for BC biomass projects, an average project size of 35 MW was assumed. The number of biomass projects was determined by dividing the aggregate biomass resource potential in MW by the average project size in MW.

[d] Only aggregate resource data was available for BC wind. The number of individual wind projects was not assessed.

3.3.1 Generator Data Request

To ensure that RETI included commercial projects, CEERT circulated a data request for generators to provide information on existing and planned projects. The data request sought information on project ownership, development stage, location, acreage, site control, project type, technology, generation capacity, capacity factor, and interconnection information in its generator RFIs. Responses were received from 16 participants and included identification of 70 individual projects.

It is important to note that most of these responses did not include specific geographical boundaries for project sites. For this reason, Black & Veatch has attempted to include projects representative of the generator-supplied information in its process. However, the boundaries of actual generator projects have generally not been identified.

Table 3-4. Pre-Identified Projects from Generator Data Request.

	No. of Projects	MW
Biomass	1	11
Geothermal	15	1,972
Solar PV	1	52
Solar Thermal	18	10,340
Wind	35	11,421
TOTAL	**70**	**23,796**
Total does not include PG&E submitted British Columbia resources		

3.3.2 Department of Defense Lands Proposed Development

The U.S. Department of Defense (DoD) has established a goal to have 25 percent of its energy requirements met by renewable energy resources by 2025. To effectuate this, the DoD is beginning to actively lease non-mission critical land on military installations for renewable energy development. The DoD has estimated the development of resources at several military installations, as detailed in Table 3-5.

Table 3-5. Pre-Identified Military Projects.

Installation	State	Technology	MW
El Centro Naval Air Facility	CA	Geothermal	100
Fort Irwin	CA	Solar Thermal	150
China Lake	CA	Solar Thermal	112
MAGTFTC Twentynine Palms	CA	Solar Thermal	100
Yuma Proving Ground	AZ	Solar Thermal	100
Sierra Army Depot	CA	Solar Thermal	50
Vandenberg Air Force Base	CA	Wind	74

3.3.3 Bureau of Land Management Land Leases

A substantial portion of California lands are under the control of the U.S. Bureau of Land Management (BLM). BLM leases federal lands to private entities for commercial activities, including energy development. Generators seeking to develop projects on BLM land must apply to lease the land through the regional BLM office, providing information regarding the type of project, the specific technology that will be used, the project's capacity, location and the acreage requested.

Noted above, the information is filed and processed at local BLM offices. To meet demand for information and consistency in application treatment, BLM had developed a central database of renewable energy lease applications. RETI used data provided by BLM in May 2008. On August 11, BLM released an updated public version of the aggregated projects which included additional projects not included in the May database. Black & Veatch became aware of this error on August 13, 2008, too late to include the project information in this report. This information will be included in subsequent RETI Phase 1 analysis.

Appendix A includes the BLM applications considered for the RETI analysis. This data was provided by the BLM.

Table 3-6. BLM Application Pre-Identified Projects (all locations).			
	No. of Projects	**Capacity, MW**	**Acres**
Solar PV	32	20,625	242,788
Solar Thermal	100	74,588	1,106,553
Wind	144	642*	1,152,233
TOTAL	**276**	**95,855**	**2,501,574**

Source: California Bureau of Land Management, August 13 2008.
* Wind MW are small because most BLM Wind applications do not include capacity

3.3.4 Utility Power Purchase Agreements

Utilities enter into contracts for the purchase of energy from generators. A small amount of information from these contracts is publicly available and provides project type, technology, capacity, general location and projected on-line date. The information is summarized in Table 3-7 and Appendix B includes contract data as summarized by the California Energy Commission.

Table 3-7. Utility Power Purchase Agreement Pre-Identified Projects.			
	No. of Projects	**Capacity, MW**	**Generation, GWh/yr**
Biomass	12	125	854
Geothermal	9	379	2,921
Solar PV	4	15	33
Solar Thermal	11	2,129	5,173
Wind	28	2,903	8,068
TOTAL	**64**	**5,552**	**17,051**

Source: California Energy Commission, "Database of Investor-Owned Utilities' Contracts for Renewable Generation, Contracts Signed Towards Meeting the California RPS Targets," available at: http://www.energy.ca.gov/portfolio/contracts_database.html, July 9, 2008

3.3.5 Transmission Operator Interconnection Queues

In order to access to the electric transmission system to deliver energy, generators must submit an interconnection request with the interconnecting transmission owner. The interconnection requests include project type, technology, capacity, general location and planned substation interconnection information. Pursuant to FERC policy, basic data

from the queue applications is publicly available. Pending requests are considered "in queue." Due to the recent surge in interconnection requests, transmission operators have extensive interconnection queues.

Black & Veatch reviewed transmission queue information for all major transmission owners in California, Arizona and Nevada. The queue information, while indicative of commercial interest, does not provide sufficient facility information necessary for RETI to define "pre-identified" projects based on this data. Black & Veatch used this information however, to validate other information on project development. Specifically, Black & Veatch used this information to ensure the number of projects and generation capacity modeled by Black & Veatch in a given area equaled or exceeded the number of projects planned by developers in each county in the study area. Table 3-8 identifies the transmission queues that were reviewed by Black & Veatch. Appendix C provides all interconnection queue information.

Table 3-8. Generation Interconnection Queue Data Sources.

Arizona Public Service Company
California Independent System Operator
Imperial Irrigation District
Los Angeles Department of Water and Power
Nevada Power Company Generator
Salt River Project
Sierra Pacific Power Company
Tucson Electric Company
Western Area Power Administration

3.4 Out-of-state Resources

Out of state resources were handled differently than in-state resources for several reasons. In many cases, Black & Veatch did not have access to the same high-quality data that are available for renewable resource potential or land use for California. In addition, the EWG had not defined land constraints for out of state areas. Black & Veatch also had to make assumptions about how much out-of-state resources would be available for export to California due to (1) resource competition from regional utilities and (2) transmission limitations on bringing resources to California. These later two factors greatly limit the amount of out-of-state resources that California can practically rely on.

Additionally, Black & Veatch had screened out many resources in different regions based on the preliminary resource assessment performed in Phase 1A. For example, Arizona wind resources were determined to be relatively small and high price, making them unlikely to be candidates for development of large transmission lines for export to California. Table 3-9 shows the out of state resource recommendations from the Phase 1A report.

Table 3-9. Resource Areas Studied in Phase 1B.

	CA	OR	WA	NV	AZ	Baja California	British Columbia
Solid Biomass	✓	✓	✓				✓
Solar Photovoltaic	✓						
Solar Thermal	✓			✓ (south)	✓ (west)		
Onshore Wind	✓	✓	✓	✓ (south)		✓ (north)	✓
Geothermal	✓	✓		✓			✓

Out of state resources were characterized based on resource types. Wind was assessed using a screening-level analysis as opposed to a more project specific analysis. This was not the case for geothermal and biomass, which generally used project level methodologies for both in state and out of state resources.[4] In southern Nevada and western Arizona, only pre-identified wind and solar projects were characterized, no proxy projects were created. In Baja, only border area wind resources were characterized.

For resources, such as wind, that were characterized by a screening-level process, a discount factor was applied to the identified resources. This factor takes into account the typical drop from technical potential to developable potential. The discount factor was based on the ratio of developable to technical potential identified in California from the results of the Phase 1A and detailed Phase 1B processes.

[4] However, the focus of most of the time and effort was spent characterizing California resources – or larger resources that could be exported to California.

A more detailed discussion of out of state resources can be found in each resource section. British Columbia was handled separately, and is discussed below.

British Columbia Generating Resources

Pacific Gas and Electric Company (PG&E) is proposing the development of a transmission line with British Columbia (BC) to access renewable generation located in the province. A parallel effort being conducted by PG&E is the identification, quantification and characterization of the renewable resources in the province. RETI is including British Columbia in its modeling efforts to determine the relative feasibility of these resources.

Biomass and wind resource information for British Columbia included in the RETI analysis was provided by PG&E and is based on the assumptions developed by PG&E or its consultants. Black & Veatch has no comment on the quality of these assumptions. Geothermal resource assessments are based on data received from GeothermEx as part of the RETI review of resources. Although PG&E provided general data about geothermal potential in BC, GeothermEx's data were used because they characterize specific projects in greater detail.

An estimated 7,430 MW has been identified by PG&E as potentially available before 2016. Another estimated 2,500 MW of installed capacity could come on line after 2016.

Project-specific cost information was not provided by PG&E for wind or biomass resources, and these resources are characterized with generic project assumptions. For biomass, updated resource cost assumptions developed for Phase 1B and an individual project sizes of 35 MW are assumed for all 1,520 MW of biomass resource. For wind, updated resource cost assumptions developed for Phase 1B are used in combination with capacity factor assumptions for different wind classes. Using these assumptions, the levelized cost of energy (LCOE) for wind resources at each wind class was estimated. An average LCOE and capacity factor weighted by annual energy production is calculated for the entire BC wind resource from these results. A summary of resources in British Columbia in included on Table 3-10

Table 3-10. British Columbia Resource Characteristics.

	Time Frame*	Project	MW	CF, %	Gen., GWh	Cap. Cost,, $/kW	FOM,$/ kW-yr	VOM, $/MWh	Fuel Cost, $/MBtu	LCOE, $/MWh
Wind	Mid	Generic	6,630	33	18,989	2,500	50	–	0	110.71
Wind	Long	Generic	1,500	40	5,311	2,500	50	–	0	86.69
Bio.	Mid	Generic	700	85	5212	4,863	91	12.45	2.46	140
Bio.	Long	Generic	820	85	6105	4,863	91	12.45	2.46	140
Geo.	Mid	Meager Creek Pebble Creek	100	80	701	3,835	–	22	0	61.78
Geo.	Long	Harrison Hot Springs	20	80	140	4,680	–	30	0	85.74
Geo.	Long	Kootenay	20	80	140	4,680	–	30	0	85.74
Geo.	Long	Mt. Cayley	50	80	350	3,900	–	25	0	66.44
Geo.	Long	Mt. Garibaldi	50	80	350	3,900	–	25	0	66.44
Geo.	Long	Okanagan	20	80	140	4,680	–	30	0	85.74
Geo.	Long	Upper Arrow	20	80	140	4,680	–	30	0	85.74

Source: Pacific Gas & Electric, GeothemEx (see Section 5).

* Mid term projects are expected to be on-line before 2016, long term projects are expected to be on-line after 2016

3.5 Proxy Projects

Once pre-identified and out of state resources had been identified, Black & Veatch developed proxy projects to meet the identified developable resource using the resource criteria and assumptions outlined in the RETI Phase 1A report, incorporating the exclusions discussed above. Sections four through eight include the identification of the proxy projects, along with the resource characteristics and cost of each project.

3.6 Project Characterization

Phase 1B includes identification of specific projects including pre-identified and proxy projects. Project characteristics have been estimated by Black & Veatch for this report for each project including:

- Location
- Net plant output
- Capital costs
- Fixed operation and maintenance
- Variable operation and maintenance
- Heat rate (if applicable)
- Fuel costs (if applicable)
- Incentives

- Capacity factor

All characteristics provided in this report are on a net ac grid-delivered basis. All costs are on 2008$ basis.

This information is provided in each resource section of this report. The information can be used to calculate the generation cost or LCOE for each project, as described in the next section.

3.7 Generation Cost

The resources identified in this report include the busbar cost of generation by resources based on the facility type, size, location and projected performance characteristics. Except for smaller solar PV and biomass projects that are assumed to be locally integrated, the generation cost does not include projected grid interconnection ("gen-tie") or network transmission costs that will be included in the analysis once the conceptual grid system is completed. Further, the resources do not include the value of energy generation or the capacity benefit of the resource. These will be provided along with the project and CREZ rankings in the final Phase 1B report.

The cost of generation is calculated as a levelized cost of generating power over the life of the resource. The cost of generation is calculated on a $/MWh basis, allowing it to be compared with disparate resources types with different costs and operating over different time periods. It is calculated using a simple pro forma financial model that considers the project from the point of view of a developer, including the developer's direct costs, charges and incentives, as well as an expected rate of return on the equity. Specifically, it considers:

- Operations and maintenance costs
- Fuel costs (as appropriate)
- Cost of equity investment in capital
- Cost of financing capital
- Taxes, including investment and production credits

Other costs, such as insurance, property taxes, development fees, interest during construction, and debt service reserve funds are included within these major categories. In developing this model, Black & Veatch has strived to make the model as simple as possible while still maintaining an accurate representation of project economics. The purpose of this has been to make the model accessible and easily understood by a wide audience, while also streamlining calculation complexity for the overall RETI model, which includes several thousand projects.

Line items and calculations in the Cost of Generation Calculator are outlined below. The Excel model can be downloaded from the RETI website. A screenshot of the calculator is included as Figure 3-3.

- **NPV for Equity Return**: A cost of equity is assumed as part of the financial assumptions. This number is treated as a hurdle which the project must reach. The project must generate sufficient income from power sales to obtain this return on equity. The Net Present Value (NPV) for Equity Return discounts all cash flows associated with the project by this prescribed return to generate a present value. If this metric is zero, the project is returning exactly the prescribed amount to equity investors. Higher values mean that the project generates too much money, and lower values mean that it does not generate enough.
- **Levelized Cost of Generation**: The actual cost of generation used in the model escalates over time. The levelized cost of generation is the constant cost (no escalation) that produces the same net present value as the actual modeled costs of generation over the life of the project. This single metric is the main output of the model.
- **Annual Generation**: The annual generation for the project is calculated based on an 8,760 hour year, the project capacity and the assumed capacity factor.
- **Cost of Generation**: The Year one cost of generation is chosen such that the NPV for Equity Return is zero. Costs of generation in later years are escalated by the assumed value.
- **Fixed Operations and Maintenance**: Fixed O & M is calculated from the assumed dollars per kilowatt of capacity per year, the project capacity and the assumed escalation value.
- **Variable Operations and Maintenance**: Variable O & M is calculated from the assumed dollars per megawatt-hour, the annual generation and the assumed escalation value.
- **Fuel Cost**: Annual generation, net plant heat rate, fuel cost and annual escalation of fuel cost determine the annual fuel cost for the project.
- **Debt Service**: Mortgage-style principal and interest payments are calculated for the proportion of the project that is assumed to be financed, the debt rate and the term of the financing.
- **Tax Depreciation**: Depreciation of project assets are calculated for tax purposes. These numbers are based on the MACRS depreciation schedules detailed in the table at the bottom of the spreadsheet. The percent of capital

cost to be depreciated is also an input. For simplification, only one depreciation schedule is assumed to apply to a project.

- **Production Tax Credit (PTC)**: The production tax credit is modeled using three parameters: the dollars per megawatt-hour credit, the annual escalation of the credit, and the duration of PTC availability in years.
- **Investment Tax Credit (ITC)**: ITC eligible projects are credited the prescribed percent of their capital costs in year one.
- **Taxes**: Projects pay an all-in combined tax rate on their taxable income (operating revenue less operating expenses and depreciation) and are credited for applicable tax credits (PTC and ITC).
- **Total**: These are the cash flows associated with the project, including the equity investment portion of the overall capital costs (accounted for as a single value in year zero).
- **Solving for Year One Cost of Generation**: Since NPV for equity return is linear with respect to year one cost of generation, the relationship can be defined by two points. In the "Calculation" box at the top of the spreadsheet, two cost scenarios ($0 and $5) are run using Excel's TABLE() function. The equation for the resulting line is solved for when NPV for equity return is zero and the value is set as the year one cost of generation.

Calculating the levelized cost of generation allows various technologies to be compared on an economic basis. However, it is important to note that busbar costs are not comparable between all options. For example, it is not appropriate to directly compare the levelized cost of an intermittent wind plant with dispatchable output from a peaking plant. This is because the economic value of the peaking plant is higher than the time variant output from the wind plant. Additionally, transmission costs have not been included in the generalized levelized cost of generation. These additional components of the resource valuation were described in the Phase 1A report and will be included in the final Phase 1B report.

Cost of Generation Calculator

All inputs are in blue.

Technology Assumptions	
Project Capacity (MW)	100
Capital Cost ($/kW)	$2,400
Fixed O&M ($/kW)	$50
Fixed O&M Escalation	2.5%
Variable O&M ($/MWh)	$0
Variable O&M Escalation	2.5%
Fuel Cost ($/MBtu)	$0
Fuel Cost Escalation	2.5%
Heat Rate (Btu/kWh)	0
Capacity Factor	35%

Financial/Economic Asumptions	
Debt Percentage	60%
Debt Rate	7.5%
Debt Term (years)	15
Economic Life (years)	20
Depreciation Term (years)	15
Percent Depreciated	100%
Energy Price Escalation	2.5%
Tax Rate	40%
Cost of Equity	15%
Discount Rate	9%

Incentives	
PTC ($/MWh)	$20
PTC Escalation	2.5%
PTC Term (years)	10
ITC	0%

Outputs	
NPV Equity Return	$0
LCOE	$109.17

Calculation		
Cap Cost		##########
	0	
	0	-105414534
	5	-99656553.3
slope		1151596.1

Year		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Annual Generation (MWh)		306,600	306,600	306,600	306,600	306,600	306,600	306,600	306,600	306,600	306,600	306,600	306,600	306,600	306,600	306,600	306,600	306,600	306,600	306,600	306,600
Power Price		$91.54	$93.83	$96.17	$98.58	$101.04	$103.57	$106.16	$108.81	$111.53	$114.32	$117.18	$120.11	$123.11	$126.19	$129.34	$132.57	$135.89	$139.29	$142.77	$146.34
Total Operating Revenue		**$28,065,479**	**$28,767,116**	**$29,486,294**	**$30,223,451**	**$30,979,037**	**$31,753,513**	**$32,547,351**	**$33,361,035**	**$34,195,061**	**$35,049,937**	**$35,926,186**	**$36,824,340**	**$37,744,949**	**$38,688,573**	**$39,655,787**	**$40,647,182**	**$41,663,361**	**$42,704,945**	**$43,772,569**	**$44,866,883**
Fixed O&M		$5,000,000	$5,125,000	$5,253,125	$5,384,453	$5,519,064	$5,657,041	$5,798,467	$5,943,429	$6,092,014	$6,244,315	$6,400,423	$6,560,433	$6,724,444	$6,892,555	$7,064,869	$7,241,491	$7,422,528	$7,608,091	$7,798,294	$7,993,251
Variable O&M		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Fuel Cost		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Operating Expenses		**$5,000,000**	**$5,125,000**	**$5,253,125**	**$5,384,453**	**$5,519,064**	**$5,657,041**	**$5,798,467**	**$5,943,429**	**$6,092,014**	**$6,244,315**	**$6,400,423**	**$6,560,433**	**$6,724,444**	**$6,892,555**	**$7,064,869**	**$7,241,491**	**$7,422,528**	**$7,608,091**	**$7,798,294**	**$7,993,251**
Interest Payment		$10,800,000	$10,386,498	$9,941,983	$9,464,130	$8,950,437	$8,398,218	$7,804,582	$7,166,424	$6,480,403	$5,742,931	$4,950,149	$4,097,908	$3,181,749	$2,196,878	$1,138,142	$0	$0	$0	$0	$0
Principal Payment		$5,513,362	$5,926,864	$6,371,379	$6,849,232	$7,362,925	$7,915,144	$8,508,780	$9,146,939	$9,832,959	$10,570,431	$11,363,213	$12,215,454	$13,131,613	$14,116,484	$15,175,220	$0	$0	$0	$0	$0
Debt Service		**$16,313,362**	**$16,313,362**	**$16,313,362**	**$16,313,362**	**$16,313,362**	**$16,313,362**	**$16,313,362**	**$16,313,362**	**$16,313,362**	**$16,313,362**	**$16,313,362**	**$16,313,362**	**$16,313,362**	**$16,313,362**	**$16,313,362**	**$0**	**$0**	**$0**	**$0**	**$0**
Tax Depreciation		$12,000,000	$22,800,000	$20,520,000	$18,480,000	$16,632,000	$14,952,000	$14,160,000	$14,160,000	$14,184,000	$14,160,000	$14,184,000	$14,160,000	$14,184,000	$14,160,000	$14,184,000	$7,080,000	$0	$0	$0	$0
Taxable Income		$265,479	($9,544,382)	($6,228,814)	($3,105,132)	($122,464)	$2,746,254	$4,784,302	$6,091,183	$7,438,643	$8,902,691	$10,391,614	$12,005,999	$13,654,756	$15,439,140	$17,268,776	$26,325,691	$34,240,833	$35,096,854	$35,974,275	$36,873,632
PTC		$6,132,000	$6,438,600	$6,438,600	$6,745,200	$6,745,200	$7,051,800	$7,051,800	$7,358,400	$7,358,400	$7,665,000	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
ITC		$0																			
Taxes		**($6,025,808)**	**($10,256,353)**	**($8,930,126)**	**($7,987,253)**	**($6,794,186)**	**($5,953,298)**	**($5,138,079)**	**($4,921,927)**	**($4,382,943)**	**($4,103,923)**	**$4,156,646**	**$4,802,400**	**$5,461,902**	**$6,175,656**	**$6,907,511**	**$10,530,276**	**$13,696,333**	**$14,038,742**	**$14,389,710**	**$14,749,453**
Total	***(96,000,000)***	***12,777,925***	***17,585,107***	***16,849,932***	***16,512,889***	***15,940,797***	***15,736,408***	***15,573,601***	***16,026,171***	***16,172,627***	***16,596,184***	***9,055,755***	***9,148,145***	***9,245,240***	***9,307,000***	***9,370,045***	***22,875,415***	***20,544,500***	***21,058,112***	***21,584,565***	***22,124,179***

Figure 3-3. Example Generation Cost Calculation for a Wind Project.

4.0 Biomass

Direct-fired biomass projects were identified as promising in the Phase 1A report. Biomass resources in California, Oregon, Washington, and British Columbia were included in the Phase 1B assessment. This section characterizes the resources suitable for development.

4.1 Project Identification Approach

Biomass resources are unique in Phase 1B of RETI: while the resource is generally distributed over a large area, the biomass fuel can be transported to the point of best use. This allows for a high degree of siting flexibility. For example, biomass projects can be sited near existing transmission with available transfer capacity, and projects can avoid sensitive environmental areas. At about 1 acre per MW, the physical footprint of biomass plants is also relatively low. For these reasons, the project identification process for biomass resources focused more on available biomass resources, and less on the actual locations of specific plants. While preliminary sites have been identified for projects, these specific locations are generally not critical to the viability of the facility.

For California projects, information from the California Energy Commission and California Biomass Collaborative (CBC) was used as the basis for identifying the total amount of biomass that could be used for power generation by county.[5] This data is included in Section 6.1 of the Phase 1A Report. The feedstock types included agricultural residues (orchard/vineyard, field/seed crop, vegetable crop, and food/fiber), forest residues (thinnings, slash, shrub, and mill residues), and urban wood waste. Using the amount of "technically available" biomass for each category by 2010, these estimates were converted to an equivalent amount of MW potential using the CBC heating value for each fuel, a heat rate of 13,650 BTU/kWh, and 80 an percent capacity factor. Black & Veatch, after discussion with biomass stakeholders, then assumed that one-third of this theoretical capacity would be available for power generation. The remainder would be unavailable or used in competing markets such as for mulch, biofuels, and other purposes. This defined state-wide capacity by county set the basis for the project identification. A similar approach was followed for out-of-state resources, as described later.

[5] California Energy Commission, *An Assessment of Biomass Resources in California*, PIER Collaborative Report 500-01-016, California Biomass Collaborative, 2006.

4.1.1 Pre-Identified Projects

A list of existing and planned biomass projects from filed PPA data was developed to assure that capacity at least equivalent to these facilities in nearby locations was identified. This list was checked versus the preliminary capacity table; the capacity of all pre-identified projects was properly represented. Since biomass power plants were sited near existing substations, it was decided that the most important factor was assuring that the total county generation capacity was appropriately represented, and that the proxy projects would be at least representative of the pre-identified project for that county.

4.1.2 Proxy Projects

Once the total available MW per county was identified, the process for siting specific projects by county began. Black & Veatch assumed that for a specific CBC defined feedstock to have a stand-alone project, a minimum of 20 MW worth of feedstock availability must exist. It was also assumed that no project could be larger than 100 MW; anything larger than this was broken into multiple units (this only occurred for one facility). After identifying these facilities, combinations of different types of agricultural and forest residues were combined using the remaining material. Finally, any remaining agricultural or forest material that was not used in any of the subsequent projects were included in single county multi-fuel projects, provided that at least 20 MW of feedstock availability remained. Urban wood waste was kept as a separate facility type throughout this process due to the nature, quality, and location of this resource.

After identification of resources that could be used in single-county projects of 20 MW or larger, the remaining material was combined with bordering counties into multi-county projects. The feedstock used for these projects were either combined agricultural or forest residues (multi-fuel projects) or urban wood waste to develop projects of at least 20 MW. Facilities that required transport distances beyond what was typically assumed for single county projects had additional transport costs added. Any remaining material from counties that could not be included in a 20 MW or larger project was not used, or was included with an existing single county project. This methodology was able to utilize 95 percent of the available biomass feedstock identified in the initial review.

To site each of the single and multi-county projects, Black & Veatch used information on existing county substations as a starting point. For single county projects, plants were sited near existing substations as close as possible to the resource, while respecting all exclusion zones. Multi-county projects followed the same methodology, and attempted to minimize the transport distance by taking into account resource location and projected transport methods. Generally speaking, it was possible to site biomass

projects adjacent to existing substations while minimizing the transportation cost. Given the relatively small size of the biomass facilities and their siting flexibility, most biomass projects are assumed to be developable without triggering significant transmission upgrades.

The only other major factor taken into account when siting biomass projects were areas of ozone and particulate matter (PM) non-attainment in the state. According to the Cal EPA, all of the state is in non-attainment for at least one of these two factors with the exception of Del Norte, Humboldt, Trinity, Mendocino, Modoc, Lassen, Lake, Plumas, and Sierra Counties. Any biomass project sited in a non-attainment area would be required to purchase offsets for the nitrous oxides (NOx) and PM emissions generated. The costs of these offsets vary from county to county and district to district. Black & Veatch used Cal EPA emissions reduction credit (ERC) trading data and contacts with local air quality management districts (AQMDs) and air pollution control districts (APCDs) to classify each county into one of 13 districts, with a $/ton ERC for NOx and PM included for each district. A value for NOx and PM emission credits per plant, assuming an emissions rate of 0.07 lb/MBtu NOx and 0.01 lb/MBtu PM, was included in the variable cost for each plant. Facilities that could justify higher transport costs (estimated at an additional $0.15/ton/mile) to reduce their ERC costs were moved out of certain districts. This led to the relocation of 8 of the 46 identified projects, largely out of the South Coast and San Joaquin Valley air districts.

4.1.3 Out-of-state Resources

A similar process was used to site county specific and multi-county projects in Oregon and Washington. NREL biomass resource data was used to identify the potential capacity for biomass generation from each of these states. However, there are two major differences with the methodology in these states. First, due to competing demand, it was assumed that only one-half of the total capacity of identified projects would be available for export to California, with the remainder used in the state of generation. Second, no environmental costs due to NOx or PM emissions were included due to resources in each of these states largely in attainment areas for ozone and PM.

In addition to these resources, there are 1,520 MW of biomass resources available in British Columbia. These resources are discussed in Section 3 of this report.

4.2 Project Characterization Assumptions

The following assumptions were made in the characterization of biomass projects.

- Conversion Technology: RETI Phase 1B assumed combustion of biomass in a stoker or fluidized bed steam generator with a standard steam power cycle.

Assumed emissions control equipment included selective non-catalytic reduction for NOx control and a baghouse/precipitator for particulate control. This technology combination represents conventional technology which has been proven over many years of operation.

- Biomass Feedstock Costs: Estimates for the cost of different biomass feedstocks were developed from data supplied by the Green Power Institute, updated to 2008 costs, and adapted for the resources identified in the CBC report. Costs for each resource can be seen in Table 4-1. Additional transport cost was added as necessary for multi-county or long transport facilities.

Table 4-1. Delivered Biomass Resource Cost.

Resource	Energy Content (BTU/bdt)	Delivered Cost, $/bdt
Composite Agricultural Residues	7790	34.1
Multi-fuel	8264	40.7
Composite Wood Residues	8738	48.4
Forest Thinnings/Slash	9027	48.4
Urban Wood Waste	7179	24.2
Forest Slash	9027	48.4
Mill Residues	8597	40.7

- Capital Cost: Capital cost for the project sizes considered (20 to 100 MW) ranged from $4000 to $5500/kW, after a review of recent cost estimates performed by Black & Veatch. This is higher than the Phase 1A numbers ($3000 to $4500/kW) due to the range of smaller plant sizes and recent price escalation for new facilities. The capital cost is inclusive of transmission and interconnection cost.
- Fixed and Variable Operating Costs: As with capital cost, these varied from $56 to $116/kW-yr for fixed costs and $10.3 to $13.6/MWh for variable costs, based on the size of the facility. These are consistent with Phase 1A estimates.
- ERC Costs: The cost of ERCs was added to the variable operating cost for units located in ozone and PM non-attainment areas. The costs for each region ranged from $11,000 to $38,000 per ton of NOx and $1,000 to $38,000 per ton of PM for all areas except the South Coast AQMD. ERCs in the South Coast were $268,000 per ton of NOx and $422,000 per ton of PM. These very

high ERC costs in the South Coast justified moving any resources in this area out of the district into less expensive compliance regions.

- Heat Rate: The heat rate varied based on the moisture content of the fuel, with a low of 14,000 BTU/kWh used for urban wood waste (12 percent moisture) to 15,780 BTU/kWh for forest residues (40 percent moisture).
- Capacity Factor: A capacity factor of 80 percent was applied to all projects.

4.3 Data Sources

As described in the Phase 1A report, Black & Veatch relied on recent engineering analysis for capital and operating costs, as well as capacity factor and heat rate estimates. Additional data sources used in this analysis included:

- Milbrandt, A. "A Geographic Perspective on the Current Biomass Resource Availability in the United States," 2005. NREL Technical Report NREL/TP-560-39181.
- Williams, et al. "An Assessment of Biomass Resources in California, 2006," 2006. California Biomass Collaborative Draft Report. Accessed online at: http://biomass.ucdavis.edu/reports.html on February 28, 2008.
- Cal EPA and contact with AQMDs and APCDs in California for ERC costs
- CBC and the Green Power Institute for feedstock costs

4.4 Projects Identified

Table 4-2 shows the biomass projects identified for this study. Detailed location for each project can be seen in the location maps accompanying this report. In total, 46 projects were identified in California totaling 1,725 MW capacity, with generation of just over 12,000 GWh/yr. Generation costs ranged from $114/MWh for the 100 MW urban wood waste project in northeast Los Angeles County, to almost $190/MWh for a 23 MW multi-fuel unit operating in a region (Santa Barbara County) with high environmental costs. Costs averaged $158/MWh for all biomass generation in the state. As would be expected, costs were lowest from larger facilities that faced low feedstock, transport, and environmental costs. Urban wood waste is the lowest cost feedstock, but typically must be moved outside of the urban centers due to siting and environmental constraints. While this raises the LCOE, the low relative cost of urban wood waste makes these plants some of the least expensive of the projects identified. Facilities using agricultural residues, although they have lower than average feedstock costs ($34/ton), typically have LCOEs higher than average. This is due to the relatively small size of the units plus these residues typically being in areas with poor air quality (San Joaquin Valley), requiring either transport out of the district or higher variable operating cost due to ERC purchases.

Oregon (15 projects, 454 MW) and Washington (14 projects, 450 MW) contributes up to 6,300 GWh/yr biomass generation capacity for consideration. Note that only half of this project generation will assumed to be available for exported to California (3,150 GWh/yr), since it was assumed that the other half would be used by competing demand. LCOE costs are estimated to be slightly lower than California due to lack of need for ERCs. However, the extra transmission costs (not reflected below) to bring power to the state will raise delivered costs.

In addition to the resources identified in this section, there are 1,520 MW of biomass resources available in British Columbia. These resources are discussed further in Section 3 of this report.

Table 4-2. Biomass Project Characteristics.

Resource County	Project Location	MW	CF, %	Generation, GWh/yr	Capital Cost, $/kW	Fixed O&M, $/kW-yr	Var. O&M, $/MWh	Fuel Cost, $/MBtu	LCOE, $/MWh	Resource Used
California Single County Projects										
Butte	Butte	24	80	168.19	$5,237	$109	$26.96	$2.19	$167.89	Agricultural Residues
El Dorado	El Dorado	34	80	238.27	$4,891	$93	$24.92	$2.77	$170.50	Wood Residues
Fresno	Fresno	70	80	490.56	$4,244	$66	$29.88	$2.46	$151.28	Multifuel
Glenn	Glenn	24	80	168.19	$5,237	$109	$26.96	$2.19	$167.89	Agricultural Residues
Humboldt	Humboldt	65	80	455.52	$4,307	$69	$11.16	$2.68	$137.96	Forest Thinnings
Kern	Kern East	53	80	371.42	$4,483	$75	$18.99	$2.73	$149.00	Multifuel
Kings	Kings	27	80	189.22	$5,117	$103	$31.89	$2.46	$175.68	Multifuel
Lassen	Lassen	42	80	294.34	$4,692	$84	$12.05	$2.77	$150.24	Wood Residues
Los Angeles 1	Los Angeles NE	100	80	700.80	$3,957	$56	$17.42	$1.69	$114.82	Urban Wood Waste
Los Angeles 2	Los Angeles NE	38	80	266.30	$4,785	$88	$19.34	$2.38	$148.97	Urban Wood Waste
Madera	Madera	26	80	182.21	$5,155	$105	$31.98	$2.46	$176.78	Multifuel
Mendocino	Mendocino	63	80	441.50	$4,333	$70	$11.22	$2.68	$138.68	Forest Thinnings
Merced	Santa Clara	25	80	175.20	$5,195	$107	$20.80	$2.67	$167.79	Agricultural Residues
Modoc	Modoc	26	80	182.21	$5,155	$105	$13.11	$2.77	$163.41	Wood Residues
Orange	San Diego	46	80	322.37	$4,609	$80	$19.62	$2.00	$138.51	Urban Wood Waste
Plumas	Plumas	41	80	287.33	$4,714	$85	$12.10	$2.77	$150.87	Wood Residues
Riverside	Imperial	30	80	210.24	$5,012	$98	$20.54	$2.31	$155.07	Urban Wood Waste
San Bernardino	San Bernardino	27	80	189.22	$5,117	$103	$20.10	$1.69	$146.91	Urban Wood Waste
San Diego	San Diego	47	80	329.38	$4,590	$80	$19.57	$1.69	$132.79	Urban Wood Waste
San Joaquin	Contra Costa	34	80	238.27	$4,891	$93	$20.10	$2.48	$155.75	Agricultural Residues
Shasta	Shasta	55	80	385.44	$4,450	$74	$26.31	$2.77	$161.03	Wood Residues
Siskiyou	Siskiyou	21	80	147.17	$5,376	$116	$24.84	$2.37	$171.38	Mill Residues
Siskiyou	Siskiyou	42	80	294.34	$4,692	$84	$24.47	$2.77	$164.90	Composite Wood Residues
Sonoma	Sonoma	21	80	147.17	$5,376	$116	$21.28	$2.46	$169.98	Multifuel
Sutter	Sutter	26	80	182.21	$5,155	$105	$26.77	$2.19	$165.52	Agricultural Residues

Table 4-2. Biomass Project Characteristics.

Resource County	Project Location	MW	CF, %	Generation, GWh/yr	Capital Cost, $/kW	Fixed O&M, $/kW-yr	Var. O&M, $/MWh	Fuel Cost, $/MBtu	LCOE, $/MWh	Resource Used
Tehama	Tehama	24	80	168.19	$5,237	$109	$27.09	$2.46	$173.15	Multifuel
Trinity	Trinity	46	80	322.37	$4,609	$80	$11.86	$2.77	$147.93	Wood Residues
Tulare	Tulare	27	80	189.22	$5,117	$103	$31.71	$2.19	$170.37	Agricultural Residues
Tuolumne	Tuolumne	22	80	154.18	$5,327	$113	$25.92	$2.77	$183.07	Composite Wood Residues
California Multiple County Projects										
Colusa,Yolo	Colusa	51	80	357.41	$4,517	$77	$25.44	$2.46	$152.73	Multifuel
San Bernardino, Riverside, LA	San Bernardino	64	80	448.51	$4,320	$69	$18.61	$2.64	$142.96	Multifuel
San Francisco, Contra Costa, Marin, Napa, Solano, Sonoma	Sonoma	34	80	241.50	$4,878	$92	$20.15	$1.95	$145.09	Urban Wood Waste
Sacramento, San Joaquin, Stanislaus	Contra Costa	35	80	244.97	$4,864	$91	$20.12	$2.00	$145.57	Urban Wood Waste
Ventura, Fresno, Kern, Tulare	Kern East	37	80	259.30	$4,810	$89	$19.74	$2.31	$148.93	Urban Wood Waste
San Mateo, Santa Clara, Alameda	Santa Clara	45	80	315.49	$4,629	$81	$19.57	$1.95	$138.09	Urban Wood Waste
Amador, Calaveras	Calaveras	25	80	173.08	$5,208	$107	$25.35	$2.73	$175.04	Multifuel
Butte, Yuba, Placer, Sacramento	Yuba	63	80	441.79	$4,333	$70	$25.69	$2.69	$152.41	Multifuel
Del Norte, Humboldt	Humboldt	27	80	185.75	$5,136	$104	$13.07	$2.69	$157.87	Multifuel
San Diego, Imperial	Imperial	36	80	250.21	$4,844	$90	$20.93	$2.73	$160.40	Multifuel
Inyo, Tulare	Inyo	20	80	142.16	$5,413	$117	$21.48	$2.69	$175.13	Multifuel
Lake, Napa, Solano	Lake	34	80	238.11	$4,891	$93	$12.51	$2.73	$151.67	Multifuel
Mendocino, Sonoma, Marin	Mendocino	22	80	156.85	$5,309	$112	$13.46	$2.92	$166.84	Multifuel
Mariposa, Stanislaus	Tuolumne	26	80	183.68	$5,147	$104	$25.21	$2.73	$173.29	Multifuel

Table 4-2. Biomass Project Characteristics.

Resource County	Project Location	MW	CF, %	Generation, GWh/yr	Capital Cost, $/kW	Fixed O&M, $/kW-yr	Var. O&M, $/MWh	Fuel Cost, $/MBtu	LCOE, $/MWh	Resource Used
SLO, Santa Barbara, Ventura	Santa Barbara	23	80	158.85	$5,296	$112	$36.25	$2.69	$189.47	Multifuel
Nevada, Sierra	Sierra	31	80	217.57	$4,979	$97	$12.71	$2.73	$154.15	Multifuel
Monterey, San Benito, Santa Cruz, Santa Clara	Monterey	26	80	181.11	$5,161	$105	$21.17	$2.83	$170.47	Multifuel
Oregon Single County Projects										
Columbia	Columbia	21	80	73.58	$5,376	$116	$13.61	$2.37	$158.12	Mill Residues
Umatilla	Umatilla	20	80	70.08	$5,428	$118	$13.73	$2.46	$162.45	Multifuel
Benton	Benton	23	80	80.59	$5,281	$111	$13.40	$2.37	$155.34	Mill Residues
Lane	Lane	82	80	287.33	$4,115	$62	$10.72	$2.37	$122.70	Mill Residues
Douglas	Douglas	38	80	133.15	$4,785	$88	$12.27	$2.37	$141.14	Mill Residues
Jackson	Jackson	33	80	115.63	$4,920	$94	$12.57	$2.37	$144.94	Mill Residues
Washington	Washington	20	80	70.08	$5,428	$118	$13.73	$2.77	$171.37	Composite Wood Residues
Klamath	Klamath	23	80	80.59	$5,281	$111	$13.40	$2.77	$167.06	Composite Wood Residues
Union	Union	21	80	73.58	$5,376	$116	$13.61	$2.46	$160.93	Multifuel
Yamhill	Yamhill	20	80	70.08	$5,428	$118	$13.73	$2.46	$162.45	Multifuel
Oregon Multiple County Projects										
Clatsop, Tillamook	Tillamook	26	80	91.10	$5,155	$105	$13.11	$2.73	$159.22	Multifuel
Lincoln, Polk	Polk	22	80	77.09	$5,327	$113	$13.50	$2.73	$164.22	Multifuel
Lane, Clackamas, Crook, Deschutes, Linn	Linn	53	80	185.71	$4,483	$75	$11.57	$3.01	$144.96	Multifuel
Douglas, Jackson	Jackson	20	80	70.08	$5,428	$118	$13.73	$2.83	$168.75	Multifuel
Curry, Coos	Coos	32	80	112.13	$4,949	$95	$12.64	$2.73	$153.31	Multifuel
Washington Single County Projects										

Table 4-2. Biomass Project Characteristics.

Resource County	Project Location	MW	CF, %	Generation, GWh/yr	Capital Cost, $/kW	Fixed O&M, $/kW-yr	Var. O&M, $/MWh	Fuel Cost, $/MBtu	LCOE, $/MWh	Resource Used
Whitman	Whitman	22	80	77.09	$5,327	$113	$13.50	$2.19	$154.39	Composite Agricultural Residues
Snohomish	Snohomish	26	80	91.10	$5,155	$105	$13.11	$2.37	$151.69	Mill Residues
Mason	Mason	25	80	87.60	$5,195	$107	$13.20	$2.37	$152.85	Mill Residues
Pierce	Pierce	82	80	287.33	$4,115	$62	$10.72	$2.37	$122.70	Mill Residues
Yakima	Yakima	31	80	108.62	$4,980	$97	$12.71	$2.37	$146.67	Mill Residues
Lewis	Lewis	34	80	119.14	$4,891	$93	$12.51	$2.37	$144.12	Mill Residues
Cowlitz	Cowlitz	44	80	154.18	$4,649	$82	$11.96	$2.37	$137.33	Mill Residues
Stevens	Stevens	26	80	91.10	$5,155	$105	$13.11	$2.77	$163.41	Composite Wood Residues
Washington Multiple County Projects										
Grays Harbor, Jefferson	Grays Harbor	34	80	119.14	$4,891	$93	$12.51	$2.77	$155.84	Composite Wood Residues
Ferry, Lincoln	Lincoln	22	80	77.09	$5,327	$113	$13.50	$2.83	$165.79	Multifuel
Pierce, Snohomish, Skagit, King	King	34	80	115.63	$4,920	$94	$12.57	$2.83	$154.04	Multifuel
Lewis, Pacific	Pacific	22	80	77.09	$5,327	$113	$13.50	$2.83	$165.79	Multifuel
Columbia, Adams, Walla Walla	Walla Walla	24	80	80.59	$5,281	$111	$13.40	$2.92	$166.01	Multifuel
Clark, Cowlitz	Cowlitz	26	80	87.60	$5,195	$107	$13.20	$2.73	$160.37	Multifuel

5.0 Geothermal

Geothermal projects were identified as promising in the Phase 1A report, and geothermal resources in California, Nevada, Oregon, and British Columbia were included in the Phase 1B assessment. This section characterizes the resources suitable for development.

5.1 Project Identification Approach

For the purposes of the RETI study, geothermal projects have been identified from a variety of public domain information, including government assessments of geothermal potential, research papers and maps by universities and national labs, industry publications and press releases, leasing records, and direct responses from geothermal developers to solicitations for information as part of the RETI process. The focus has been on specific tracts of land about which there is enough public information to make a quantitative estimate of MW potential over a development horizon of about 10 years.

5.1.1 Pre-Identified Projects

Pre-identified projects have included existing geothermal plants with expansion potential, Known Geothermal Resource Areas (KGRAs) as published by the United States Geological Survey (USGS), geothermal leases as published by the BLM, and prospect areas with associated MW estimates published by the California Energy Commission (CEC) and the Western Governors Association (WGA). Isolated hot springs and warm wells have not been treated as projects unless there has been some expression of developer interest, such as the leasing of geothermal development rights on specific tracts.

5.1.2 Proxy Projects

Estimation of geothermal potential for RETI purposes has not involved designation of proxy projects. Because geothermal projects typically have relatively long lead-times and high up-front costs, only those areas in which assessment work or leasing has already occurred were considered relevant to transmission planning over a 10-year horizon.

5.1.3 Out-of-state Resources

Phase 1A of the RETI process entailed a high-level review of the geothermal potential of several areas outside California, including Nevada, Oregon, Washington, British Columbia, and northern Mexico. Based on this review, three out-of-state areas

were deemed to have sufficient geothermal potential to warrant more detailed assessments for purposes of transmission planning: Nevada, Oregon, and southern British Columbia. In general, the assessment process for these areas was the same as the California resources.

5.2 Project Characterization Assumptions

Estimation of MW potential for specific areas has relied on volumetric estimation of heat in place wherever sufficient information was available to justify this approach. The methodology has been described in detail in a study of California and Nevada geothermal resources for the CEC PIER program (GeothermEx, 2004). In brief, the heat-in-place approach entails estimation of the area, thickness, and average temperature of the geothermal resource. Recovery factors based on industry experience are applied to estimate the proportion of heat that can be recovered as electrical energy over an assumed project life of 30 years. Uncertainty in the input parameters is handled by a probabilistic approach that yields a range of possible MW values and associated probabilities. The modal value of the probability distribution is considered the "most likely value" of MW potential for the project concerned.

Where there is insufficient resource information to apply the heat-in-place method, estimates of MW potential have been made by analogy to better-known projects in similar geologic environments. If the only public information about a project is that it contains geothermal leases or has been the subject of a geological reconnaissance study, the project size has been estimated at a minimum size of 10 MW (gross). Larger estimates of MW capacity can be justified even in the absence of published resource data if there is evidence of active geothermal development efforts. For certain large volcanic centers in northern California, Oregon, and southern British Columbia, MW capacities of 50 MW (gross) have been estimated based on potentially favorable geologic conditions, even in the absence of current development efforts.

Characterization of geothermal projects as to capital and operating costs has been based as much as possible on industry experience. The costs of drilling and plant equipment have risen markedly in recent years. A comparison of cost estimates from the CEC-PIER report (GeothermEx 2004) with actual development costs as of 2008 indicates that the CEC-PIER estimates have escalated by about 20 percent. Moreover, a correlation of the CEC-PIER cost estimates with estimated MW capacities has shown generally higher costs per kW installed for smaller projects. This correlation of cost with project size has been used to estimate the cost of projects not considered by the CEC-PIER study, and the 20 percent escalation factor has been used to express all project costs in 2008 dollars. For British Columbia, a 30 percent escalation factor has been applied to

account for development challenges associated with colder climate and rugged topography. This analysis has yielded capital cost estimates ranging from $3,750 to $6,750/kW (net) installed (leaving off the most expensive 10 percent of estimated MW capacity).

Operating costs have been estimated to range generally from $24 to $38/MWh (net), with higher costs characterizing the smaller project sizes. The hyper-saline brine resources of the Salton Sea field are estimated to have operating costs of $39/MWh. The operating cost estimates include site costs, general and administrative overhead, workovers, royalties, and insurance. They also do not include any costs for ongoing capital expenditures (such as make-up drilling or gathering-system modifications), which affect different projects to varying degrees.

Incremental capacity estimates were first developed on a gross capacity basis and then converted to a net basis using an assumed average auxiliary load of 10 percent for flash resources and 20 percent for binary resources.

Initial capacity factor estimates for plants were assumed to be 90 percent flash plants and 80 percent for binary plants. As discussed in the Phase 1A report, binary plants are generally dry-cooled with performance impacted by high summer temperature.

5.3 Data Sources

The principal data sources for project identification and MW estimates have included:

- Industry responses to requests for information under the RETI process
- Broad-based assessments of geothermal potential (such as the USGS assessment of 1979, currently being updated; the CEC-PIER report of 2004; the WGA study of 2006)
- Industry publications (such as reports and updates of the Geothermal Energy Association)
- Leasing records (such as the LR-2000 database of the BLM).
- Geothermal databases made available by state regulators (such as the California Division of Oil, Gas and Geothermal Resources, and the Nevada Division of Minerals.
- Research and maps published by universities and national labs (particularly the Great Basin Center for Geothermal Studies, the National Renewable Energy Lab, and Southern Methodist University.
- Technical literature published by the Geothermal Resources Council

The principal data sources for cost estimation have included:

- Industry press releases

- Reports prepared by or sponsored by government agencies, such as the US DOE and the CEC.

5.4 Projects Identified

Table 5-1 shows the geothermal project totals by state. In total, 116 projects were identified for the study region, with 13 of these projects within the state of California. The California projects totaled 1,958 MW (net) of incremental capacity, contributing almost 15,000 GWh of electricity generation. Total estimated incremental capacity is 4,172 MW (net), with a potential generation of 31,000 GWh. Table 5-2 shows the geothermal projects identified for this study. All characteristics are year 2008 values.

Table 5-1. Geothermal Project Totals by State (MW)

California	1,958
Nevada	182
Oregon	520
British Columbia	244
Grand Total	**4,172**

Table 5-2. Geothermal Project Characteristics.

State	Area	Project Name	Project Type	MW	CF,%	Generation, GWh/yr	Capital Cost, $/kW	O&M, $/MWh	LCOE, $/MWh
CA	Imperial Valley	Brawley (Brawley, E.Brawley, S.Brawley)	Binary	160	80	1,121	$4,190	$27.50	$74.36
CA	Imperial Valley	East Mesa (Dunes & Glamis)	Binary	32	80	224	$7,609	$27.78	$137.54
CA	Geysers	Geysers (Calistoga, Clear Lake [Sulphur Bank])	Flash	135	90	1,064	$3,920	$31.25	$58.64
CA	Imperial Valley	Heber (Border, Mount Signal, Superstition Mountain)	Binary	32	80	224	$4,231	$24.44	$79.50
CA	NE California	Honey Lake	Binary	8	80	56	$4,026	$31.25	$83.36
CA	NE California	Lake City / Surprise Valley	Binary	32	80	224	$4,991	$37.50	$92.55
CA	Eastern Sierra	Long Valley - M-P Leases	Binary	40	80	280	$3,750	$31.25	$71.24
CA	NE California	Medicine Lake	Binary	240	80	1,682	$4,500	$31.25	$84.13
CA	NE California	Mt Shasta (areas around Lassen: Growler & Morgan)	Flash	45	90	355	$4,222	$31.25	$67.19
CA	Mohave Desert	Randsburg	Binary	24	80	168	$4,091	$27.78	$77.09
CA	Imperial Valley	Salton Sea (Niland & Westmoreland)	Flash	1170	90	9,224	$4,889	$31.25	$90.50
CA	Imperial Valley	Truckhaven (San Felipe prospect)	Binary	40	80	280	$4,500	$38.89	$84.13
NV	I-80 Corridor - West (Pershing County)	Adobe Valley	Binary	8	80	56	$6,750	$31.25	$130.16
NV	Esmeralda County	Alkali Hot Springs	Binary	8	80	56	$6,750	$37.50	$130.16
NV	Esmeralda County	Alum	Binary	32	80	224	$4,482	$37.50	$83.82
NV	I-80 Corridor - East (Eureka County)	Antelope (aka Bartholomae Hot Springs)	Binary	8	80	56	$6,750	$31.25	$130.16
NV	Walker Lake Area	Aurora	Binary	100	80	701	$4,625	$37.50	$81.84
NV	NW Nevada	Baltazor	Binary	12	80	84	$7,800	$27.50	$148.20
NV	I-80 Corridor - East	Beowawe	Flash	22.5	90	177	$4,836	$37.50	$76.57
NV	Walker Lake Area	Aurora	Binary	100	80	701	$4,625	$27.78	$81.84
NV	NW Nevada	Baltazor	Binary	12	80	84	$7,800	$31.25	$148.20
NV	I-80 Corridor - East	Beowawe	Flash	22.5	90	177	$4,836	$37.50	$76.57
NV	I-80 Corridor - West	Blue Mountain (aka Faulkner)	Binary	40	80	280	$4,398	$37.50	$82.36
NV	I-80 Corridor - East	Boulder Valley	Binary	8	80	56	$6,750	$31.25	$130.16
NV	I-80 Corridor - West	Brady's	Binary	8	80	56	$5,081	$37.50	$101.48
NV	I-80 Corridor - West	Buffalo Valley	Binary	24	80	168	$4,838	$37.50	$89.92
NV	Esmeralda County	Candelaria Hills	Binary	8	80	56	$6,750	$37.50	$130.16
NV	I-80 Corridor - West	Colado	Binary	16	80	112	$6,978	$37.50	$134.08
NV	I-80 Corridor - East	Crescent Valley	Binary	8	80	56	$6,750	$37.50	$130.16

Table 5-2. Geothermal Project Characteristics.

State	Area	Project Name	Project Type	MW	CF,%	Generation, GWh/yr	Capital Cost, $/kW	O&M, $/MWh	LCOE, $/MWh
NV	Central Nevada	Darrough Hot Springs (aka Big Smokey Valley; Raser project names: Trail Canyon, Truckee, Devil's Canyon)	Binary	16	80	112	$5,400	$31.25	$106.97
NV	I-80 Corridor - East (Elko County)	Delcer Buttes	Binary	8	80	56	$6,750	$37.50	$130.16
NV	I-80 Corridor - West	Desert Peak	Binary	40	80	280	$3,849	$37.50	$72.94
NV	I-80 Corridor - West	Desert Queen	Binary	8	80	56	$6,750	$24.44	$130.16
NV	I-80 Corridor - East	Devil's Punch Bowl (north of Deeth)	Binary	8	80	56	$6,750	$37.50	$130.16
NV	Dixie Corridor	Dixie Valley	Flash	180	90	1,419	$4,176	$37.50	$62.56
NV	NW Nevada	Double (Black Rock) Hot Springs	Binary	16	80	112	$7,496	$31.25	$142.97
NV	NW Nevada (Humboldt County)	Dyke Hot Springs	Binary	8	80	56	$6,750	$37.50	$130.16
NV	Esmeralda County	Emigrant	Binary	40	80	280	$5,712	$37.50	$104.95
NV	I-80 Corridor - West	Empire (aka San Emidio)	Binary	8	80	56	$6,558	$31.25	$126.86
NV	Walker Lake Area (Mineral County)	Excelsior	Binary	8	80	56	$6,750	$31.25	$130.16
NV	I-80 Corridor - West	Fallon (aka Carson Lake)	Binary	24	80	168	$4,805	$37.50	$89.36
NV	Esmeralda County	Fish Lake	Binary	32	80	224	$5,825	$37.50	$106.88
NV	I-80 Corridor - West	Fly Ranch (Hualapi Flat & Granite Ranch)	Binary	12	80	84	$12,148	$31.25	$222.90
NV	I-80 Corridor - West	Gerlach (aka Great Boiling Springs)	Binary	16	80	112	$6,030	$37.50	$117.79
NV	I-80 Corridor - East	Grass Valley (Lander County)	Binary	20	80	140	$5,025	$37.50	$93.14
NV	NW Nevada	Gridley Lake	Binary	8	80	56	$6,750	$31.25	$130.16
NV	Walker Lake Area	Hawthorne	Binary	12	80	84	$6,585	$37.50	$127.32
NV	I-80 Corridor - West	Hazen (aka Patua Hot Springs)	Binary	20	80	140	$6,078	$37.50	$111.23
NV	Central Nevada	Hot Creek Ranch	Binary	8	80	56	$6,750	$37.50	$130.16
NV	I-80 Corridor - East	Hot Creek Springs (aka Carlotti Ranch Springs)	Binary	8	80	56	$6,750	$31.25	$130.16
NV	I-80 Corridor - West	Hot Pot	Binary	8	80	56	$6,750	$37.50	$130.16
NV	I-80 Corridor - East	Hot Sulphur Springs (incl. East Independence prospect)	Binary	24	80	168	$4,838	$37.50	$89.92
NV	NW Nevada	Howard Hot Springs	Binary	8	80	56	$6,750	$37.50	$130.16
NV	Dixie Corridor	Hyder Hot Springs	Binary	12	80	84	$10,416	$31.25	$193.14
NV	I-80 Corridor - West	Jackrabbit	Binary	8	80	56	$6,750	$37.50	$130.16

Table 5-2. Geothermal Project Characteristics.

State	Area	Project Name	Project Type	MW	CF,%	Generation, GWh/yr	Capital Cost, $/kW	O&M, $/MWh	LCOE, $/MWh
NV	Dixie Corridor	Jersey Hot Springs (aka Jersey Valley)	Binary	20	80	140	$5,025	$37.50	$93.14
NV	I-80 Corridor - West	Kyle Hot Springs (aka Granite Montain)	Binary	16	80	112	$5,562	$37.50	$109.75
NV	I-80 Corridor - West	Leach Hot Springs	Binary	16	80	112	$10,091	$37.50	$187.54
NV	I-80 Corridor - West	Lee Hot Springs	Binary	12	80	84	$6,395	$37.50	$124.05
NV	NW Nevada (Humboldt County)	Macfarlanes Bath House Spring	Binary	8	80	56	$6,750	$37.50	$130.16
NV	I-80 Corridor - West	McCoy	Binary	8	80	56	$6,750	$31.25	$130.16
NV	NW Nevada	McGee Mountain	Binary	12	80	84	$5,091	$31.25	$101.66
NV	Central Nevada	McGinness Hills	Binary	20	80	140	$5,025	$31.25	$93.14
NV	I-80 Corridor - West	New York Canyon	Binary	20	80	140	$5,273	$37.50	$97.40
NV	I-80 Corridor - West	North Valley (incl. Black Warrior, Fireball Ridge)	Binary	28	80	196	$4,418	$37.50	$82.71
NV	Esmeralda County	Pearl Hot Springs	Binary	8	80	56	$6,750	$37.50	$130.16
NV	NW Nevada	Pinto Hot Springs	Binary	16	80	112	$4,637	$37.50	$93.85
NV	Dixie Corridor	Pirouette Mountain	Binary	16	80	112	$4,565	$37.50	$92.61
NV	Central Nevada (White Pine County)	Preston Springs	Binary	8	80	56	$6,750	$37.50	$130.16
NV	I-80 Corridor - West	Pumpernickel Valley	Binary	16	80	112	$6,389	$37.50	$123.95
NV	I-80 Corridor - West	Pyramid Lake Indian Reservation (aka The Needles)	Binary	16	80	112	$5,825	$37.50	$114.26
NV	Central Nevada	Reese River (aka Shoshone)	Binary	12	80	84	$4,793	$37.50	$96.53
NV	Walker Lake Area (Mineral County)	Rhodes Marsh	Binary	8	80	56	$6,750	$31.25	$130.16
NV	I-80 Corridor - West (Pershing/Humboldt Counties)	Rose Creek	Binary	8	80	56	$6,750	$27.50	$130.16
NV	I-80 Corridor - West	Rye Patch (incl. Humboldt House)	Binary	32	80	224	$5,655	$37.50	$103.97
NV	I-80 Corridor - West	Salt Wells	Binary	56	80	392	$4,331	$37.50	$76.79
NV	Esmeralda County	Silver Peak	Binary	16	80	112	$5,400	$37.50	$106.97
NV	Central Nevada	Smith Creek Valley	Binary	8	80	56	$6,750	$37.50	$130.16
NV	I-80 Corridor - West	Soda Lake	Binary	12	80	84	$3,782	$37.50	$79.16
NV	Dixie Corridor	Sou Hot Springs (aka Seven Devils Springs)	Binary	12	80	84	$6,309	$37.50	$122.58
NV	Central Nevada	Spencer (aka MacLeod's Hot Springs)	Binary	8	80	56	$6,750	$31.25	$130.16

Table 5-2. Geothermal Project Characteristics.

State	Area	Project Name	Project Type	MW	CF,%	Generation, GWh/yr	Capital Cost, $/kW	O&M, $/MWh	LCOE, $/MWh
NV	I-80 Corridor - West	Steamboat Hot Springs	Binary	12	80	84	$4,000	$37.50	$82.92
NV	I-80 Corridor - West	Stillwater - Geothermal I & North Expansion	Binary	20	80	140	$5,025	$37.50	$93.14
NV	I-80 Corridor - East	Sulphur Hot Springs (aka Ruby Valley)	Binary	12	80	84	$6,000	$37.50	$117.27
NV	Walker Lake Area (Mineral County)	Teels Marsh	Binary	8	80	56	$6,750	$37.50	$130.16
NV	I-80 Corridor - West	Tracy	Binary	8	80	56	$6,750	$31.25	$130.16
NV	I-80 Corridor - West	Trego	Binary	8	80	56	$6,750	$37.50	$130.16
NV	I-80 Corridor - West	Trinity Mountains	Binary	32	80	224	$4,763	$37.50	$88.64
NV	I-80 Corridor - West	Tungsten Mountain	Binary	8	80	56	$6,750	$37.50	$130.16
NV	Central Nevada	Vigus Canyon	Binary	8	80	56	$6,750	$37.50	$130.16
NV	I-80 Corridor - West	Wabuska	Binary	8	80	56	$8,703	$37.50	$163.71
NV	Dixie Corridor	Walker Warm Springs	Binary	8	80	56	$6,750	$37.50	$130.16
NV	Central Nevada	Warm Springs (Nevada)	Binary	8	80	56	$6,750	$37.50	$130.16
NV	Central Nevada	Wedell Springs (aka Gabbs Valley)	Binary	16	80	112	$5,400	$37.50	$106.97
NV	I-80 Corridor - East	Wells (aka Humboldt Wells)	Binary	8	80	56	$6,750	$37.50	$130.16
NV	I-80 Corridor - West	Wilson Hot Springs (aka Barren Hills)	Binary	12	80	84	$4,641	$37.50	$93.93
OR	SE Oregon	Alvord Hot Springs	Binary	8	80	56	$6,750	$31.25	$130.16
OR	SE Oregon	Borax Lake	Binary	16	80	112	$5,400	$37.50	$106.97
OR	S. Central Oregon	Crump's Hot Springs	Binary	32	80	224	$4,550	$37.50	$84.98
OR	S. Central Oregon	Klamath Falls	Binary	8	80	56	$6,750	$37.50	$130.16
OR	S. Central Oregon	Lakeview (includes Hot Lake area)	Binary	16	80	112	$5,400	$27.78	$106.97
OR	SE Oregon	Mickey Hot Springs	Binary	16	80	112	$5,400	$27.78	$106.97
OR	Northern Oregon	Mt Hood (outside wilderness area)	Flash	45	90	355	$4,222	$31.25	$67.19
OR	SW Oregon	Mt Rose (near Roseburg, along I-5)	Flash	45	90	355	$4,000	$27.78	$63.80
OR	E. Central Oregon	Neal Hot Springs (incl. Vale)	Binary	24	80	168	$4,838	$37.50	$89.92
OR	Central Oregon	Three Sisters	Flash	45	90	355	$4,222	$37.50	$67.19
OR	SE Oregon	Trout Creek	Binary	8	80	56	$6,750	$27.78	$130.16
OR	Central Oregon	Warm Springs (Oregon)	Flash	45	90	355	$4,000	$37.50	$63.80
BC	SW BC Mainland	Harrison Hot Springs	Binary	16	80	112	$5,850	$27.78	$114.70
BC	SE BC Mainland	Kootenay	Binary	16	80	112	$5,850	$37.50	$114.70
BC	SW BC Mainland	Meager Creek / Pebble Creek	Flash	90	90	710	$4,261	$37.50	$63.85
BC	SW BC Mainland	Mt. Cayley	Flash	45	90	355	$4,333	$24.44	$68.89
BC	SW BC Mainland	Mt. Garibaldi	Flash	45	90	355	$4,333	$27.78	$68.89

Table 5-2. Geothermal Project Characteristics.

State	Area	Project Name	Project Type	MW	CF,%	Generation, GWh/yr	Capital Cost, $/kW	O&M, $/MWh	LCOE, $/MWh
BC	SE BC Mainland	Okanagan	Binary	16	80	112	$5,850	$27.78	$114.70
BC	SE BC Mainland	Upper Arrow	Binary	16	80	112	$5,850	$37.50	$114.70

6.0 Solar Photovoltaic

The potential for large-scale solar photovoltaic development was identified in the Phase 1A report. The Phase 1B assessment of solar photovoltaic projects focused on development of centralized large-scale and distributed utility-scale projects in California. This section describes the assessment.

The Phase 1B assessment of solar photovoltaic projects focused on development of centralized large-scale and distributed utility-scale projects in California. Distributed projects were 20 MW sited close to existing substations, while centralized projects were 150 MW projects sited using the same criteria as solar thermal projects. Smaller customer-sited photovoltaic projects are not directly considered for large-scale transmission upgrades as part of the RETI process, but they are assumed to be installed under the state's solar initiatives.

It is important to note that many more thousands of solar PV projects could have been included in the analysis. However, the range of costs in solar PV projects is relatively small, and the selected projects are considered to be representative for the purpose of the analysis.

6.1 Project Identification Approach

Solar photovoltaic projects were identified using available information on proposed projects as well as selecting areas which had good technical and commercial potential for development. The areas where existing commercial interest was expressed were considered as "pre-identified" projects. Projects which were identified in high potential areas in California were considered as "proxy".

6.1.1 Pre-Identified Projects

Each pre-identified project met a set of criteria that allowed Black & Veatch to locate and characterize the project. At a minimum, these projects had specific geographic coordinates, land acreage and megawatt capacity. In some cases the developers provided additional information about the shape of the project area and the technology.

The pre-identified solar photovoltaic projects came from a range of sources. For the purpose of this study, pre-identified solar thermal and solar photovoltaic were combined into a joint set. Black & Veatch assumed that an area that is a candidate for solar thermal is also appropriate for solar photovoltaic. This combined set of solar projects was modeled as either solar photovoltaic or solar thermal.

The most comprehensive source of data was the BLM. Many solar developers have filed applications for right of way on BLM lands. In terms of land and megawatts, the BLM applications account for the majority of the pre-identified projects.

Another important source of project information was the generator data request. Many solar project developers provided non-confidential information about their projects, which was used to verify and augment the project list.

Black & Veatch also received additional data from the utilities, CEC, ISO, and military. In most cases, this additional data did not include enough information to locate a project and was thus only used to cross check the data for pre-identified and proxy projects.

6.1.2 Proxy Projects

The solar photovoltaic proxy projects were created to account for areas with potential for development but no expressed commercial interest. Black & Veatch developed a set of assumptions about solar photovoltaic projects based on the characteristics of the technology.

Black & Veatch assumed that many relatively small solar photovoltaic projects would be distributed across the state. The size of these projects was assumed be 20 MWe[6] since this is the maximum size that can be connected to power transmission lines under the small generator interconnection process. These proxy projects would be located as close as possible to a substation for ease of interconnection.

These distributed projects would have short timeframes because of their small, modular nature, and relative ease of permitting and interconnection. The assumptions for solar photovoltaic distributed utility-scale proxy projects are as follows:

- 20 MWe for each project.
- 160 acre square (quarter section). This is 8 acres per MWe, or 6.4 acres per MWp.
- One project near each 50kV – 100kV substation. It was assumed that substations at this voltage range could accept 20 MW of generation.
- Two projects near each 100kV – 200kV substation. It was assumed that substations at this voltage range could accept 40 MW of generation.

[6] The nomenclature used by the solar industry can be confusing. Most solar output and costs are quoted in $ per watt "peak" or "dc" (shown as MWp). This is the peak rating of the solar module, and does not take into account degradation due to wiring loss, inverter efficiency, temperature and other factors. To accurately compare to other technologies, an "ac" rating should be used (MWe). This derate factor ranges from 77 to 85 percent, depending on the photovoltaic technology and location. All of the costs for other technologies in the RETI report are quoted on a net ac basis, and solar PV output and costs are presented in this report in a similar manner.

- Median land slope of less than five percent. Land with higher slope was assumed to be too costly to construct.

The solar photovoltaic proxy projects also include a set of larger, centralized projects. These projects share the same criteria as the solar thermal proxy projects, and thus each of these areas is modeled as both solar thermal and solar photovoltaic for comparison. The solar thermal section has more detailed description of the methodology used to identify these projects. The assumptions for the solar photovoltaic large scale proxy projects are as follows:

- 150 MWe for each project. This is slightly smaller than solar thermal due to lower efficiency of photovoltaics.
- Two square mile area. This is assuming 8.5 acres per MWe, 6.8 acres per MWp.
- Median land slope of less than two percent. The land slope requirements were for solar thermal, but were deemed appropriate for solar photovoltaic.
- Experienced an average annual direct normal insolation of more than six kilowatts per square meter per day. This screen was for solar thermal, but areas with high quality direct normal insolation will also have high quality global insolation.

To these technical screens were added environmental and policy screens to ensure that solar development did not take place on inappropriate lands. Information on California's land use environmental designations was used to identify areas available for development of these photovoltaic projects. The areas that were to be excluded from the solar development analysis included:

- Environmental "yellow" areas as defined by the RETI Environmental Working Group. See Section 3 for more information on these exclusion areas.
- Prime Agricultural Lands registered under the Williamson Act. The Williamson Act protects farmland for a period of 10 years, which is automatically renewed every year unless a request for non-renewal is submitted. Prime agricultural lands under the Williamson Act were not considered for solar proxy projects.
- Non-Prime Agricultural Lands registered under the Williamson Act. Non-prime farm land under the Williamson Act would be assessed for technical potential for large-scale solar proxy projects. These lands, however, would be assumed to be undevelopable before 2018 to allow time for current contracts to expire. Because there are many other available small land parcels and it

would take 9 years before land would become available for development, these lands were not considered for the smaller distributed proxy solar photovoltaic projects.

- Land with high slope. This was calculated as the median slope for each quarter section (160 acres). The slope cutoff was lower for large-scale projects.
- Areas with annual average insolation of less than 6 kWh/m^2/day. This was the cutoff insolation for the analysis for large-scale projects.

Other screens such as urban areas were also applied. The complete list of exclusion areas is provided in Section 3.

6.1.3 Out-of-state Resources

No out of state resources were considered for solar photovoltaic projects. The RETI Phase 1A report concluded that sufficient potential exists in California so there is no need to include out of state resources.

6.2 Project Characterization Assumptions

Several assumptions were used when characterizing potential solar photovoltaic projects. Two different technologies were chosen to represent the trends in photovoltaics: tracking crystalline silicon as the base case and fixed thin film as a sensitivity analysis. The base case was characterized by the following assumptions:

- Multi-crystalline modules
- Single axis tracking, north-south axis
- Backtracking to avoid self-shading during sunrise and sunset
- Ground coverage ratio of 30 percent

The base case assumes a single axis tracking system to increase the energy production in the mornings and afternoons. It is typical to see a tracking system with crystalline silicon modules since the additional energy production outweighs the added cost of the tracker.

A sensitivity case was outlined in the RETI Phase 1A report to show a scenario with low cost thin film modules. The sensitivity case assumes a fixed tilt mounting structure instead of a tracking system. Due to a thin film's relatively lower cost and lower efficiency, the added cost of the tracking system is usually not justified. The thin film system was characterized by the assumptions below:

- Thin film modules
- Fixed tilt of 20 degrees

- South-facing
- Ground coverage ratio of 43 percent

These systems were evaluated based on their capacity factors and levelized cost of energy (LCOE). Assumptions affecting capacity factor and LCOE are discussed in the following sections.

6.2.1 Capacity Factor Assumptions

Capacity factors for the base case and the sensitivity case were calculated for each project. For a solar photovoltaic project, capacity factor is the ratio of its AC delivered energy over a year and its AC energy output if it had operated at full nameplate capacity the entire time.

Black & Veatch used data and models developed by the National Renewable Energy Laboratory (NREL) as a basis for analysis. NREL provided high resolution solar irradiance data in GIS format. This data included global horizontal, latitude tilt and direct normal monthly irradiance values for 10km x 10km grid squares. NREL derived the solar irradiance data from many years of satellite images covering the United States.

Black & Veatch used a proprietary tool to calculate energy production. The inputs for this tool included the NREL solar irradiance data, temperature data, geographical location, day and hour. The tool outputs average hourly energy production per month for both tracking crystalline silicon projects and fixed tilt thin film projects. An annual degradation in performance of 1 percent was included in the cost of energy calculations.

Figure 6-1 and Figure 6-2 show examples of the daily energy generation profiles for one axis tracking and fixed tilt. A tracking system will produce more energy in the mornings and afternoons than a fixed tilt system.

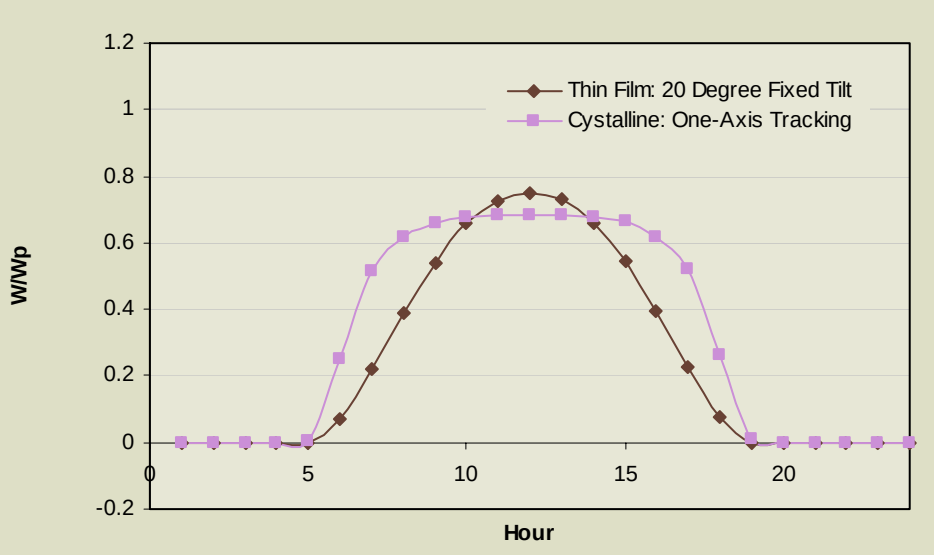

Figure 6-1. Example Energy Output from Crystalline Silicon and Thin Film (July).

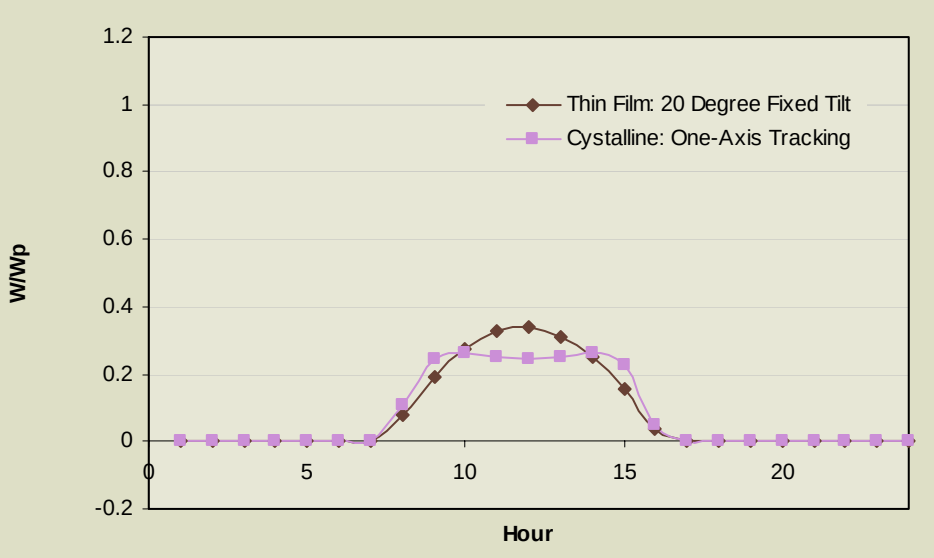

Figure 6-2. Example Energy Output from Crystalline Silicon and Thin Film (December).

6.2.2 Cost Assumptions

The key financial assumptions were capital cost and operations and maintenance (O&M) costs. These are shown in Table 6-1. For the purposes of RETI, Black & Veatch chose tracked crystalline photovoltaics as the representative base case photovoltaic technology. However, thin film manufacturers have targeted aggressive cost reductions

in the near term. In recognition of the significant impact that such cost reductions might have, the alternative thin film costs have been included here. Unlike all other estimates in RETI, these estimates are based on manufacturer projections and not actual project cost experience. For this reason, thin film is treated under a sensitivity scenario and not a base case assumption.

Table 6-1. Photovoltaics Cost Parameters.

	Base Case Crystalline	Sensitivity Thin Film
Base Project Capital Cost ($/kWe)	7,000	3,700
Variable O&M ($/MWh)	N/A	N/A
Fixed O&M ($/kWe)	44	25
Levelized Cost of Energy ($/MWh)	192 to 285	114 to 176

For the 20 MW projects, the base capital cost was increased to account for interconnection costs. Black & Veatch assumed upgrading the existing substations to accommodate the new generation would cost $800,000, and new transmission from the project to the substation would cost $200,000 per mile. No other transmission costs will be assigned to smaller PV projects, as they have been assumed to be integrated into the local grid without the need for major upgrades.

For the larger 150 MW projects, the base capital cost was increased to account for access roads to the site from the nearest major roadway. New roads were assumed to cost $50 per foot. Interconnection and other transmission costs will also be assigned to the larger projects in the final Phase 1B report.

6.3 Data Sources

Data sources used in this analysis included:

- R. Bird and C. Riordan, "Simple Spectral Model for Direct and Diffuse Irradiance on Horizontal and Tilted Planes at the Earth's Surface for Cloudless Atmospheres", available at: www.nrel.gov, accessed: June 2008.
- Perez, et.al., "SUNY Satellite Solar Radiation model", available at: www.nrel.gov, accessed: June 2008.
- NREL's GIS team, High Resolution National Solar Photovoltaics GIS data, available at: www.nrel.gov, accessed: June 2008.

6.4 Projects Identified

There were 1,375 distributed solar photovoltaic projects identified in 56 counties in California, for a total of 27,500 MW. These projects are expected to generate 58,775 GWh annually. There were 1,785 large projects identified in California for a total of 267,750 MW. Project generation potential is 623,496 GWh/yr. Cost of generation for thin film ranges from $114 to $176/MWh. Table 6-2 lists the annual generation and capacity for solar photovoltaic projects by county. Refer to appendix D to see a full listing of solar photovoltaic projects.

Table 6-2. Solar PV Projects by County.

	Distributed, MWe	Large Centralized, MWe	Distributed, Utility Scale, GWh/yr	Large Centralized, GWh/yr
Alameda	180		393	
Amador	200		413	
Butte	680		1,412	
Calaveras	440		915	
Colusa	200		400	
Contra Costa	140		320	
Del Norte	260		537	
El Dorado	480		988	
Fresno	1,360	450	2,885	1,004
Glenn	120		252	
Humboldt	440		892	
Imperial	1,020	25,800	2,408	61,145
Inyo	360	19,650	777	45,533
Kern	2,900	27,300	6,451	65,285
Kings	240	150	525	334
Lake	300		619	
Lassen	300	21,150	597	44,509
Los Angeles	660	15,750	1,519	37,653
Madera	620		1,309	
Marin	120		242	
Mariposa	100		211	
Mendocino	340		710	
Merced	800		1,672	
Modoc	440	3,450	883	7,118
Mono	280	3,450	591	7,770
Monterey	680	2,700	1,470	6,007
Napa	300		608	
Nevada	400		822	
Orange	100		222	
Placer	580		1,192	
Plumas	400	1,950	823	4,147
Riverside	1,900	33,000	4,380	77,488
Sacramento	720		1,484	
San Benito	100		198	
San Bernardino	1,040	99,900	2,405	236,726
San Diego	620	1,050	1,377	2,455
San Joaquin	560		1,171	
San Luis Obispo	420	6,750	958	15,148
San Mateo	40		85	

Table 6-2. Solar PV Projects by County.

	Distributed, MWe	Large Centralized, MWe	Distributed, Utility Scale, GWh/yr	Large Centralized, GWh/yr
Santa Barbara	480	1,650	1,045	3,710
Santa Clara	120		253	
Santa Cruz	160		336	
Shasta	1,100	3,150	2,112	6,526
Sierra	80	150	173	324
Siskiyou	560	300	1,060	614
Solano	280		568	
Sonoma	440		902	
Stanislaus	420		882	
Sutter	120		248	
Tehama	220		446	
Trinity	260		518	
Tulare	540		1,161	
Tuolumne	380		799	
Ventura	240		512	
Yolo	380		783	
Yuba	360		741	
Total	**27,500**	**267,750**	**58,775**	**623,496**

7.0 Solar Thermal

Large scale solar thermal projects were identified in the Phase 1A report as promising. Solar thermal resources in California, southern Nevada, and western Arizona were included in the Phase 1B assessment. This section characterizes the resources suitable for development.

7.1 Project Identification Approach

The solar resource is more uniform and widely distributed than resources for other technologies. For this reason, there are a large number of potential solar thermal projects, many more than can be assumed to be developable over the coming decades. The project identification approach, however, was to identify as many technically feasible, commercially attractive, and environmentally responsible projects as possible. Subsequent transmission, economic and environmental analysis will select which of the projects are best to include in the CREZ analysis.

Parcels that are appropriate for solar thermal development are also appropriate for development by other solar technologies. For this reason, parcels that fit criteria for solar thermal development are considered appropriate for any technology large scale solar development and are characterized as both solar thermal and solar photovoltaic projects.

Project identification for large scale solar was based on a grid of potential projects that covered the entire state of California. Each grid square was a single project parcel with an area of two square miles, corresponding to a capacity of 200 MW (and 150 MW for solar PV). Grid squares which contained land in exclusion zones were eliminated from consideration, leaving a subset of parcels which were candidates for analysis. From these candidate parcels, projects were selected. Projects previously identified in publicly available sources were first selected. Remaining candidate parcels that fit the criteria for proxy projects were also included.

7.1.1 Pre-Identified Projects

Candidate grid squares were selected as projects if Black & Veatch had evidence of interest in development of the land for large scale solar projects. Evidence of interest could exist in the form of an application with the Bureau of Land Management, a contract for energy sales, or a response to Black & Veatch's request for information. Black & Veatch also received guidance regarding the military's interest in developing large scale solar.

As described previously, it is important to note that the pre-identified projects have not been directly modeled in this report. Rather, Black & Veatch has identified

resources in the same vicinity of the project. Sometimes the boundaries of Black & Veatch's projects match the pre-identified project boundaries, in other cases a portion of the boundaries overlap or the projects are nearby.

Bureau of Land Management Applications

A candidate grid square was selected on the basis of commercial interest if available information indicated that an application to the BLM for solar development existed for land contained in the grid square. This source resulted is most of the pre-identified projects.

Contracts for Energy Sales

The California Public Utilities Commission maintains a list of existing power purchase agreements. This list includes a number of contracts for solar thermal projects. Black & Veatch attempted to locate these projects based on publicly available information. Where this was possible, the grid square at the corresponding location was included as a pre-identified project.

Request for Information

A number of generators provided Black & Veatch with data about their solar thermal generation projects. Where adequate geographic information was provided by the generators, the grid square at the corresponding location was included as a pre-identified project.

Military Projects

Black & Veatch received guidance regarding military bases with interest in developing large scale solar but not specific site information for the projects. Based on this information, grid squares on flat land near other identified projects inside military lands were selected as projects.

7.1.2 Proxy Projects

Black & Veatch defined proxy projects on candidate land parcels without demonstrated development interest. These projects were selected as the most attractive and technically feasible of the remaining candidate grid squares. The grid squares selected as proxy projects satisfied the following conditions:

- Did not contain land in an environmental "yellow area" as defined by the RETI Environmental Working Group

- Did not contain land in other restricted lands identified in Section 3 (for example urban areas)
- Had a median land slope of less than two percent
- Experienced an average annual direct normal insolation of more than 6 kWh/m^2/day

Proxy projects were placed on land contracted under the Williamson Act as non-prime agricultural land. These projects, however, would not be available for development until 2018.

7.1.3 Out-of-state Resources

Projects with commercial interest were considered outside of California. Instead of defining a grid of all available projects, land with commercial interest was identified. If available information indicated that a BLM application existed for land in western Arizona or southern Nevada, that land was considered as a resource. Also, if other pre-identified projects could be located in western Arizona or southern Nevada from publicly available or provided information, an appropriate amount of land at that location was also considered as a resource.

7.2 Project Characterization Assumptions

The following assumptions were made in the characterization of solar thermal projects.

- Solar Technology: All solar thermal projects were modeled as a parabolic trough plant without thermal storage. This assumption is from RETI Phase 1A.
- Wet vs. Dry Cooling: All projects were assumed to be dry cooled with the exception of projects with treated wastewater available. Wastewater was allocated to otherwise attractive projects closest to the source of the water. Water sources were population centers and the amount of water was derived from population data.
- Capital Cost: A unique capital cost was assigned to each project. More than 90 percent of projects have capital costs between $4100 and $5200/kW. The majority of the differences in capacity factor arise from earthmoving costs associated with terracing sloped land for development. Costs also vary based on the need for a wet or dry condenser, and the miles of access road needed. Projects on the low end of the range include the wet cooled projects on flat land close to existing roads.

- Capacity Factor: Performance of each project was simulated independently using a parabolic trough performance model developed at NREL. The insolation and weather data for each site is from the NREL database of satellite-based solar data.
- Operations & Maintenance: Fixed O&M is assumed to be $66/kW-yr. There is no assumed variable cost. This assumption is from RETI Phase 1A.

7.3 Data Sources

Data sources used in this analysis included:

- Perez, et.al., "SUNY Satellite Solar Radiation model", available at: www.nrel.gov, accessed: June 2008.
- Blair, et.al., " Modeling Photovoltaic and Concentrating Solar Power Trough Performance, Cost, and Financing with the Solar Advisor Model", available at: www.nrel.gov, accessed: June 2008.

7.4 Projects Identified

A total of 1,785 projects were identified in California, representing 357 GW of generating capacity and more than 790 TWh of annual electricity generation. Of those projects, 689 were pre-identified, 40 were designated as wet cooled, and 196 contain land protected by the Williamson Act. These 196 projects will only be assumed developed in the long term.

Generation costs ranged from $133/MWh to near $300/MWh, which is a large range. Costs are concentrated around the $167/MWh average, however. Nearly three quarters of the costs fall between $145 and $200/MWh. The lower cost projects are located in areas that are nearly flat and have insolation and weather conducive to high capacity factors. Only two of the wet cooled projects are above the average, and wet cooled projects represent seven of the cheapest ten. The most expensive projects, conversely, are those burdened with low insolation and a greater need for grading.

An additional 33 projects were identified in Nevada and Arizona, representing 79 GW of generating capacity and more than 182 TWh of annual electricity generation. The cost analysis of these projects is not as refined as that for projects in California, but the average cost of generation, $161/MWh is very near the California average.

The solar thermal projects identified for this study are included in Appendix E. All characteristics are year 2008 values.

8.0 Wind

This section details Black & Veatch's approach to the identification of wind projects for the purposes of RETI analysis. Wind resources were identified as promising throughout much of the RETI study region the Phase 1A report. In Phase 1B, wind resources have been characterized in California, southern Nevada, Oregon, Washington, British Columbia, and the northern portion of Baja California. This section discusses the methodology used to characterize the resources suitable for wind technology. The general approach was to identify potential wind projects that had potential low levelized cost of energy, based on site characteristics.

8.1 Project Identification Approach

Project identification for wind in California was based on a high resolution AWS Truewind wind speed map. This GIS dataset was produced as part of the Energy Commission's Intermittency Analysis Project. The wind data included wind speed, wind direction, and Weibull shape and scale parameters for a 200 meter by 200 meter grid over the entire state of California.

The wind data GIS layer was used to create an accompanying ½ mile by ½ mile grid (quarter section) that included key cost and performance estimates of potential projects: capacity, capacity factor, and capital cost. Quarter sections that had a median slope greater than 20 percent were not considered. Capital cost data was based on Black & Veatch experience with of turbine supply costs and balance of plant costs. Balance of plant costs were determined for each site based on slope, miles of access road, and miles of project road required. Generation interconnection and other transmission costs are not included in the estimates in this report.

Nameplate capacity was determined for each site by estimating how many representative turbines could be placed within the prospective wind class area within each site. While the final spacing of turbines is dependent on many site specific characteristics, research has shown that energy deficits due to wake effects tend to decrease with increasing wind speed. As such, Black & Veatch implemented a general wind class specific "rule of thumb" where each subsequently higher wind class area is assigned a tighter spatial distribution for turbine placement. Each area is also assigned a specific terrain multiplier to compensate for land availability issues at each site. These values for terrain and spacing are based upon industry standard practices and Black & Veatch's project experience.

Capacity factor was derived from the AWS wind speed data (adjusted for altitude) and representative turbine power curves. A representative turbine power curve was

determined by averaging the power curves from three turbine manufacturers' models for IEC classes I, II and III. Only turbines from major manufacturers that produce Class I, II and III turbines were considered. Black & Veatch chose this method to ensure the analysis was not reliant on any specific turbine manufacturer. The three turbines that were chosen for each class are presented in Table 8-1. The average of each representative turbine is shown in Table 8-2 and Figure 8-1.

Table 8-1. Turbines Considered for Average Power Curve Calculation.

	Gamesa			Vestas			GE		
	G80	G87	G90	V80	V90	V90	1.5se	1.5sl	1.5xle
IEC Class	I	II	III	I	II	III	I	II	III
Rated Power (MW)	2	2	2	1.8	1.8	2.0	1.5	1.5	1.5

Table 8-2. Calculated 'Typical Turbine' Used in Analysis.

IEC Class	I	II	III
Rated Power (MW)	1.77	1.77	1.83

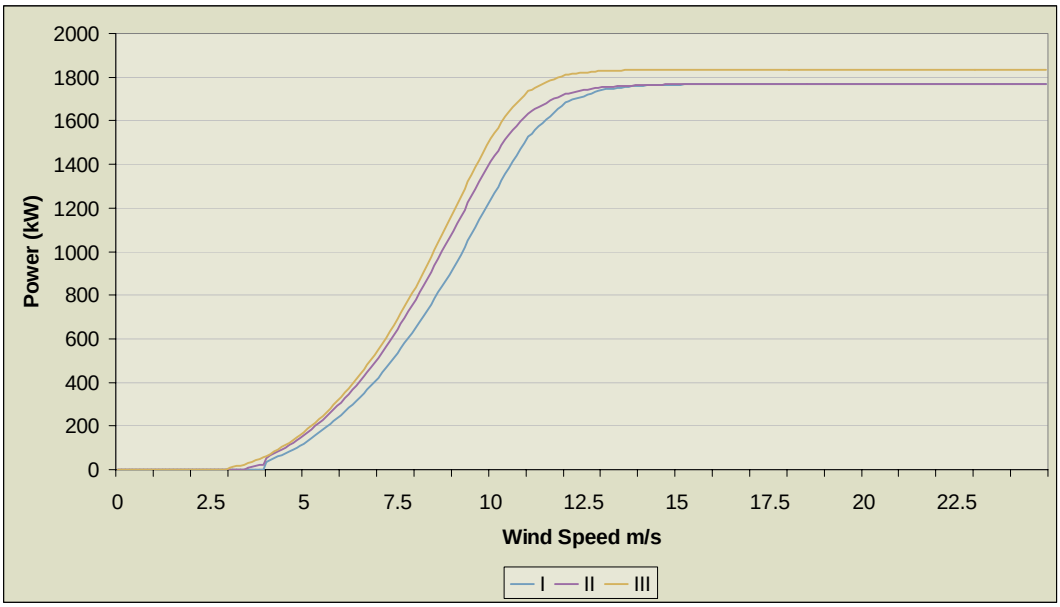

Figure 8-1 Averaged WTG Power Curves

Wind resource characteristics determine what class of turbine needs to be used on site. These characteristics include maximum gusts, turbulence intensity, and average wind speed. Some of these characteristics were not available to Black & Veatch in the

analysis, so a simplified method of selection was used. IEC Class III turbines were used in NREL Class 3 winds, IEC Class II turbines were used in NREL Class 4 through 6 winds and IEC Class I turbines were used in NREL Class 7 winds.

A general loss factor of 12 percent was used to calculate net capacity factor from gross capacity factor. Losses come from many sources include icing, turbine availability, grid availability, and high wind hysteresis. An in-depth analysis of losses on a per project basis was not performed.

These capital costs and capacity factors were then used to create a levelized cost of energy for each quarter section.

In order to define projects located on relatively flat areas, projects were identified by aggregating adjacent quarter sections with similar cost of energy characteristics. For potential projects located on ridgelines, strings of comparable quarter sections were identified on the ridgelines that allowed a project to be oriented perpendicular to the prevailing wind direction. Projects areas that had low wind power density and could not support a wind project of at least 30 MW were not considered.

Information on California's terrain, land use, and environmental designations was used to identify specific areas conducive to the development of utility scale wind energy projects. The areas that were to be excluded from the wind development analysis included:

- Environmental "yellow" areas as defined by the RETI Environmental Working Group. See Section 3 for more information on these exclusion areas.*
- National Forest (designated roadless areas in National Forest are included in "black out" areas). See Section 3 for more information on these exclusion areas.*
- Land identified as "Red" by the Department of Defense in their maps of restricted airspace. These maps show restricted military airspace and it was assumed that areas designated as "red" would not be available for wind development.*
- Existing wind projects. Land with existing wind projects was not considered to be available for further development. These may be available for repowering, but repowering was not contemplated in the RETI process.
- Areas adjacent to major airports. Major airports have significant FAA restrictions on wind development in the flight path.
- Land with greater than 20 percent slope. Slope was calculated as the median slope for each quarter section. Land with slope higher than 20 percent is considered too difficult to construct.

- Areas with annual average wind speeds of less than 6.3 meters per second. This was the cutoff wind speed for the analysis. Areas with annual average wind speeds lower than this were not considered.

*Land categories marked with an asterisk were not considered by Black & Veatch for placement of "proxy" projects, but pre-identified projects were placed and characterized in these areas.

8.1.1 Pre-Identified Projects

Projects were identified as "pre-identified" if Black & Veatch had evidence of commercial interest in development of the land for a wind project. Evidence of commercial interest could exist in the form of an application with the Bureau of Land Management, a contract for energy sales, or a response to Black & Veatch's request for information. These are discussed in more detail below.

Bureau of Land Management applications

There are three types of BLM applications for wind energy, type 1, 2 and 3. Type 1 applications are for wind speed monitoring only and cannot be renewed past the initial 3 year term. Type 2 applications grant exclusivity and can be renewed or extended to full development. Type 3 applications are for full development and have a term of 30 to 35 years. The data Black & Veatch received from the BLM did not always distinguish between the type of application, and Black & Veatch therefore included all three types of applications to indicate commercial interest.

In many cases, these BLM GIS data were incomplete. BLM GIS data was inconsistent with spreadsheet data provided by BLM. In addition, some BLM data was significantly out of date. Black & Veatch did not attempt to exactly match the GIS polygons provided by the BLM, but instead matched Black & Veatch identified projects that overlapped or were adjacent to identified BLM projects.

Power Purchase Agreements

The California Energy Commission maintains a list of existing power purchase agreements (see Appendix). Black & Veatch attempted to locate these projects based on publicly available information. Where this was possible, the project at the corresponding location was included as a pre-identified project.

Request for Information

A number of generators provided Black & Veatch with data about their wind projects. Where adequate geographic information was provided by the generators, the project at or near the corresponding location was included as a pre-identified project.

8.1.2 Proxy Projects

Those projects identified by Black & Veatch that were not matched to a pre-identified project were considered "proxy" projects.

8.1.3 Out-of-state Resources

The methodology for out of state resources varied dependent on the location, and is described below.

- **Southern Nevada**: Only pre-identified projects were included, either using BLM application information or generator RFI data. Wind power density data at 50 meters from NREL GIS maps were used to calculate the capacity (MW) and annual generation (GWh) for these projects. Slope data were used to estimate capital costs.
- **Northern Baja:** Wind power GIS data from NREL was used to estimate technical potential in the border region. This technical potential (over 9,000 MW) was larger than the technical potential originally reported in the Phase 1A report due to a larger survey area. Wind power density data at 50 meters from NREL GIS maps were used to calculate the capacity (MW) and annual generation (GWh) for potential projects in the region. Slope data were used to estimate capital costs. Developable capacity was derived from this technical potential using a 70 percent reduction, the same ratio of developable to technical potential found in California. This reduction was required because there was no screening process applied to Baja wind resources (e.g. environmental, military, constructability, slope, airport, etc).
- **Oregon and Washington:** NREL GIS data was used to estimate technical potential wind generation, as reported in the Phase 1A report. This was provided by wind class and region for both states (there are 19 regions in WA and OR) Developable capacity was derived from this technical potential using a 70 percent reduction, the same ratio of developable to technical potential found in California. Typical capacity factors for each wind class were applied for each wind class in each region.

- **British Columbia:** Information provided by PG&E was used to describe wind energy potential in British Columbia. Further information can be found in Section 3 of this report.

8.2 Project Characterization Assumptions

In the course of analysis, many assumptions had to be made. A list of major assumptions is given below.

- Wind turbine procurement cost of $1,650 / kW; balance of plants costs estimated per site.
- Typical capacity factors were used in analyzing out of state wind resources for each NREL Class 3, 4, 5, 6 and 7 winds. These capacity factors are:
  - Class 3: 23 percent
  - Class 4: 29 percent
  - Class 5: 35 percent
  - Class 6: 43 percent
  - Class 7: 52 percent
- A twelve percent loss factor was incorporated to calculate net energy production from gross.
- Terrain modifiers were used for costs of construction only.
- A project will require 1,200 feet of onsite roads per turbine on average.
- No inaccuracy factors were incorporated for estimating energy production from a Weibull curve.
- Operation and maintenance costs of $50/kW-yr.

8.3 Data Sources

- AWS Truewind, “New Wind Energy Resource Maps of California”, available at: http://www.energy.ca.gov/pier/project_reports/500-02-055F.html, accessed: July 10, 2008.
- AWS Truewind and NREL, “GIS map for Baja California Norte”, available at: http://www.nrel.gov/gis/wind.html, accessed June 28, 2008
- NREL, “GIS data for Oregon and Washington”, available at: http://www.nrel.gov/gis/wind.html, accessed June 21, 2008
- Bureau of Land Management, “GIS Data Set”, accessed February 2008
- Bureau of Land Management, “GIS Data from Geocommunicator”, accessed June 2008

- BLM Spreadsheet data (May 12, 2008) Provided to Black & Veatch by the BLM.
- Generator RFI responses
- IOU Contract database (CEC and CPUC)
- PG&E Supplied Wind Database for British Columbia

8.4 Projects Identified

Black & Veatch identified 131 wind projects in California with a total of 16,127 MW of capacity. These projects are expected to produce 46,298 GWh of electricity annually. About half (62) of these projects were pre-identified, representing 8,345 MW. The other 69 projects representing 7,782 MW were "proxy" projects.

While project parcels are precisely defined, they are not intended to exactly represent pre-identified or optimal projects. The intent is to use the uniform projects to model the possible economic performance of a project in the area. Maps showing all of the identified projects are available on the project website. Project details can be found in Table 8-4. All project characteristics are year 2008 values.

Capital costs ranged from $2,260 to $2,680/kW, with an average of $2,500. This is higher than the values identified in the Phase 1A report due to recent cost increases. Capacity factors for California projects ranged from 26 to 44 percent, with a mean of 32 percent. LCOE values ranged from $63 to $145/MWh, with an average of $108/MWh.

Black & Veatch also identified 46,190 MW of capacity and 112,694 GWh of energy production outside the state. These figures represent capacity that Black & Veatch concludes could be developable. While these resources were considered developable, this does not mean they will be available to export to California due to local competition for the resource. These factors will be considered in the economic analysis. Table 8-3 shows the capacity and annual energy identified out of state.

Table 8-3. Out of State Resources.

Region	Developable Capacity (MW)	Annual Energy (GWh/year)
Northern Baja California, Mexico	2,773	8,014
British Columbia, Canada	8,130	25,203
Nevada	1,475	3,203
Oregon	18,766	41,353
Washington	15,046	34,921

Table 8-4. California Wind Project Characteristics.

Project ID	State	Proxy/Pre-ID	MW	CF, %	Generation, GWh/yr	Capital Cost, $/kW	LCOE, $/MWh
w1	CA	Pre-Identified	74.25	32%	210	$2,501	$95.59
w2	CA	Proxy	49.13	29%	126	$2,517	$109.16
w3	CA	Proxy	45.45	30%	119	$2,274	$95.19
w4	CA	Proxy	215.84	32%	611	$2,390	$91.02
w5	CA	Pre-Identified	160.69	32%	444	$2,330	$91.42
w6	CA	Pre-Identified	113.39	29%	290	$2,361	$102.83
w7	CA	Pre-Identified	188.49	35%	582	$2,627	$90.13
w8	CA	Pre-Identified	82.01	29%	207	$2,397	$106.05
w9	CA	Pre-Identified	67.12	31%	182	$2,572	$104.31
w10	CA	Pre-Identified	80.33	30%	211	$2,594	$110.13
w11	CA	Pre-Identified	51.33	31%	139	$2,455	$99.57
w14	CA	Pre-Identified	121.48	44%	473	$2,333	$55.84
w15	CA	Proxy	61.20	30%	161	$2,681	$113.90
w16a	CA	Proxy	105.07	41%	375	$2,287	$62.09
w16c	CA	Proxy	156.91	42%	578	$2,381	$62.28
w17a	CA	Pre-Identified	72.00	42%	265	$2,542	$67.58
w17b	CA	Proxy	102.96	30%	275	$2,350	$96.69
w18	CA	Pre-Identified	62.44	28%	151	$2,660	$125.40
w20	CA	Proxy	112.79	30%	298	$2,308	$96.18
w21	CA	Proxy	148.58	31%	402	$2,471	$100.42
w22	CA	Proxy	135.09	30%	357	$2,265	$94.16
w23	CA	Pre-Identified	148.18	31%	399	$2,301	$93.16
w24	CA	Pre-Identified	190.25	32%	526	$2,396	$94.06
w25	CA	Pre-Identified	41.40	36%	132	$2,526	$82.46
w26	CA	Proxy	185.37	34%	554	$2,507	$89.30
w27	CA	Proxy	112.70	32%	313	$2,586	$101.91
w28	CA	Proxy	65.35	27%	155	$2,618	$126.16

Table 8-4. California Wind Project Characteristics.

Project ID	State	Proxy/Pre-ID	MW	CF, %	Generation, GWh/yr	Capital Cost, $/kW	LCOE, $/MWh
w29	CA	Proxy	156.78	30%	409	$2,486	$105.96
w30	CA	Proxy	187.16	30%	489	$2,412	$102.32
w31	CA	Pre-Identified	238.11	30%	635	$2,399	$98.99
w32	CA	Pre-Identified	208.55	30%	557	$2,336	$95.96
w33	CA	Pre-Identified	156.70	29%	404	$2,357	$101.39
w34	CA	Proxy	180.84	30%	472	$2,478	$105.42
w35	CA	Proxy	185.17	29%	478	$2,349	$100.84
w36	CA	Proxy	76.48	30%	198	$2,643	$114.33
w37	CA	Proxy	117.55	28%	291	$2,559	$116.62
w38	CA	Proxy	174.05	32%	495	$2,573	$98.09
w39	CA	Proxy	170.60	30%	455	$2,369	$97.46
w40	CA	Proxy	248.02	32%	702	$2,475	$94.54
w41	CA	Proxy	77.69	29%	200	$2,664	$116.08
w42	CA	Proxy	135.34	29%	342	$2,657	$118.41
w43	CA	Proxy	188.30	30%	496	$2,633	$111.14
w44	CA	Proxy	115.61	29%	291	$2,258	$99.85
w47	CA	Proxy	86.40	31%	231	$2,650	$109.70
w48	CA	Proxy	136.80	30%	365	$2,666	$110.85
w49	CA	Proxy	117.00	30%	309	$2,662	$112.36
w50	CA	Proxy	102.60	33%	296	$2,679	$100.53
w51	CA	Proxy	77.40	34%	232	$2,674	$95.73
w52	CA	Proxy	32.40	31%	88	$2,648	$107.37
w53	CA	Proxy	103.68	30%	274	$2,645	$111.34
w54	CA	Pre-Identified	136.97	31%	369	$2,641	$108.27
w55	CA	Pre-Identified	192.18	32%	537	$2,612	$102.16
w56	CA	Pre-Identified	72.00	35%	223	$2,651	$90.83
w57	CA	Pre-Identified	78.57	31%	214	$2,634	$106.44

Table 8-4. California Wind Project Characteristics.

Project ID	State	Proxy/Pre-ID	MW	CF, %	Generation, GWh/yr	Capital Cost, $/kW	LCOE, $/MWh
w58	CA	Pre-Identified	52.09	31%	142	$2,534	$101.83
w59	CA	Pre-Identified	74.02	33%	213	$2,601	$98.08
w60	CA	Proxy	41.68	30%	109	$2,576	$109.22
w61	CA	Proxy	106.24	31%	287	$2,528	$103.11
w65	CA	Pre-Identified	254.72	36%	798	$2,448	$81.39
w66	CA	Pre-Identified	186.61	35%	577	$2,286	$76.53
w67	CA	Proxy	201.39	35%	615	$2,283	$77.76
w68	CA	Pre-Identified	201.43	36%	633	$2,497	$82.86
w69	CA	Pre-Identified	114.57	34%	343	$2,428	$85.87
w70	CA	Pre-Identified	192.92	35%	587	$2,315	$79.49
w71	CA	Pre-Identified	218.82	34%	642	$2,290	$82.53
w72	CA	Proxy	102.60	41%	365	$2,658	$75.11
w75	CA	Proxy	174.60	29%	449	$2,662	$115.98
w76	CA	Proxy	48.89	30%	128	$2,338	$98.64
w77	CA	Pre-Identified	63.24	29%	163	$2,307	$99.05
w78	CA	Pre-Identified	87.38	31%	239	$2,293	$91.12
w79	CA	Pre-Identified	122.73	31%	336	$2,398	$95.47
w80	CA	Pre-Identified	122.01	31%	329	$2,457	$100.21
w81	CA	Pre-Identified	137.49	32%	384	$2,266	$87.16
w82	CA	Pre-Identified	52.20	31%	140	$2,679	$110.41
w83	CA	Pre-Identified	56.42	29%	141	$2,334	$104.33
w86	CA	Pre-Identified	125.06	36%	393	$2,615	$87.33
w90	CA	Proxy	204.25	34%	602	$2,273	$81.42
w91a	CA	Proxy	215.83	41%	782	$2,359	$63.15
w91b	CA	Proxy	168.67	35%	512	$2,287	$78.63
w93	CA	Pre-Identified	161.80	35%	490	$2,504	$87.52
w97	CA	Proxy	41.40	34%	124	$2,675	$95.76

Table 8-4. California Wind Project Characteristics.

Project ID	State	Proxy/Pre-ID	MW	CF, %	Generation, GWh/yr	Capital Cost, $/kW	LCOE, $/MWh
w98	CA	Pre-Identified	52.20	35%	160	$2,614	$90.12
w99	CA	Proxy	43.20	35%	134	$2,618	$89.04
w100	CA	Proxy	151.20	33%	438	$2,647	$98.81
w101	CA	Proxy	174.60	31%	481	$2,661	$106.26
w103	CA	Pre-Identified	77.40	30%	205	$2,644	$111.13
w104	CA	Pre-Identified	109.80	32%	305	$2,640	$104.31
w106	CA	Pre-Identified	122.80	27%	286	$2,552	$125.65
w107	CA	Proxy	80.15	26%	185	$2,635	$131.42
w108	CA	Proxy	71.12	30%	185	$2,374	$101.36
w110	CA	Proxy	215.64	28%	529	$2,584	$119.45
w113	CA	Proxy	52.82	29%	134	$2,675	$118.96
w114	CA	Proxy	42.77	29%	109	$2,463	$108.02
w115	CA	Pre-Identified	58.71	29%	148	$2,676	$119.49
w116	CA	Pre-Identified	68.27	27%	159	$2,469	$121.42
w117	CA	Pre-Identified	60.89	29%	153	$2,411	$107.46
w118	CA	Proxy	103.75	28%	252	$2,423	$113.06
w121	CA	Proxy	45.00	28%	109	$2,653	$124.69
w123	CA	Proxy	77.40	33%	221	$2,657	$101.36
w124	CA	Proxy	143.08	31%	394	$2,654	$105.83
w125	CA	Proxy	81.13	33%	235	$2,674	$100.02
w126	CA	Proxy	108.12	29%	273	$2,635	$117.36
w127	CA	Proxy	106.92	28%	263	$2,487	$114.35
w128	CA	Proxy	75.22	28%	182	$2,605	$122.16
w129	CA	Proxy	89.50	28%	218	$2,522	$117.64
w130	CA	Proxy	72.51	32%	203	$2,505	$97.14
w131	CA	Proxy	59.41	29%	154	$2,616	$113.21
w132	CA	Proxy	147.87	37%	478	$2,641	$84.99

Table 8-4. California Wind Project Characteristics.

Project ID	State	Proxy/Pre-ID	MW	CF, %	Generation, GWh/yr	Capital Cost, $/kW	LCOE, $/MWh
w133	CA	Proxy	58.39	37%	189	$2,648	$85.03
w134	CA	Proxy	90.72	33%	261	$2,304	$85.20
w135	CA	Proxy	43.20	27%	104	$2,518	$119.20
w136	CA	Proxy	128.09	32%	358	$2,451	$95.14
w141	CA	Proxy	159.17	37%	510	$2,281	$72.57
w142	CA	Proxy	118.73	39%	404	$2,279	$66.49
w143	CA	Pre-Identified	36.57	32%	104	$2,270	$85.33
w144	CA	Pre-Identified	96.89	34%	290	$2,277	$79.91
w145	CA	Pre-Identified	91.67	38%	306	$2,279	$68.18
w157	CA	Pre-Identified	122.40	40%	426	$2,542	$73.45
w158	CA	Pre-Identified	45.00	35%	139	$2,542	$86.60
w159	CA	Pre-Identified	1000.00	36%	3,168	$2,540	$83.61
w160	CA	Proxy	95.40	32%	266	$2,542	$99.28
w169	CA	Proxy	76.63	34%	230	$2,673	$95.35
w200	CA	Pre-Identified	52.20	34%	154	$2,607	$95.10
w201	CA	Pre-Identified	243.00	32%	673	$2,620	$103.68
w202	CA	Proxy	162.00	37%	530	$2,660	$84.45
w203	CA	Pre-Identified	52.20	33%	152	$2,574	$95.02
w204	CA	Pre-Identified	203.86	38%	681	$2,490	$75.95
w205	CA	Pre-Identified	68.40	34%	205	$2,480	$87.97
w206	CA	Pre-Identified	95.40	38%	317	$2,450	$74.85
w207	CA	Proxy	213.39	36%	665	$2,313	$76.79
w208	CA	Proxy	150.00	36%	468	$2,379	$79.09

9.0 Competitive Renewable Energy Zones

Detailed in the RETI Phase 1A Report, a CREZ is an aggregation of projects based on their physical location and shared transmission constraints. The CREZs identified in this report are based on a "first-pass" of identifying transmission pathways for resources without consideration of the economics of the resources. After the economic analysis of the CREZs, taking into account the transmission costs and the value of the resources, the CREZ will be divided into sub-CREZs that reflect the development timeframe and economics of the resources in the CREZ. The analysis identified 58 competitive renewable energy zones in the RETI study area, including 47 in California and 11 outside of California. These CREZs are shown in the maps accompanying this report.

Not all identified resources are included within a CREZ. Since CREZs are defined based on shared electrical interconnection, some discrete resources, such as discrete geothermal or biomass resources, are not included in a CREZ. Additionally, CREZs do not include potential smaller solar PV resources. The smaller PV resources were assumed to be 20 MW in size and located near exiting transmission. In areas where PV may compete with solar thermal for large scale implementation (150 MW), it is anticipated they would simply replace solar thermal resources in the analysis and utilize that portion of transmission (along with the associated costs). Because solar thermal is generally more cost effective than solar PV in the base case, for the purposes of this section, totals presented exclude large-scale solar PV projects. The smaller PV projects, biomass projects, and geothermal projects are considered "non-CREZ resources".

For purposes of discussion, the CREZs have been aggregated with discrete (non-CREZ) projects into seven broad resource areas. These resource areas include:

- Northern California
- Central Coast
- Tehachapi/Owens
- Southeast California
- Salton Sea / San Diego
- North Out-of State
- South Out-of-State

These regions are shown in Figure 1-1 in the Executive Summary. The CREZs and discrete projects included in each resource are discussed below.

9.1 Northern California

Table 9-1 shows the projects and CREZs identified in Northern California. The capacity and annual generation potential is tabulated in Table 9-1.

Table 9-1. Northern California Projects and CREZs.

	Biomass	Geo-thermal	Solar PV	Solar Thermal	Wind	Total
Capacity (MW)						
CREZ Resources						
Bodega					128	128
Cape Mendocino					91	91
Caribou	83			2,000		2,083
Humboldt					206	206
Lake	34	135			43	212
Lassen North	26	32		27,000	1,179	28,237
Lassen South		16		6,400	1,000	7,416
Pacheco					59	59
Round Mountain	55	240		4,800	132	5,227
Siskiyou	63	45				108
Solano					503	503
Non-CREZ Resources	889		16,480			17,369
Total	1,150	468	16,480	40,200	3,341	61,639
Generation (GWh/yr)						
CREZ Resources						
Bodega					358	358
Cape Mendocino					261	261
Caribou	582			3,360		3,941
Humboldt					668	668
Lake	238	1,064			104	1,406
Lassen North	182	224		42,420	3,175	46,002
Lassen South		112		10,458	3,168	13,738
Pacheco					148	148
Round Mountain	385	1,682		7,576	357	10,000
Siskiyou	442	355				796
Solano					1,614	1,614
Non-CREZ Resources	6,231		33,951			40,182
Total	8,060	3,437	33,951	63,813	9,854	119,115

9.2 Central Coast

Table 9-2 shows the projects and CREZs identified in the Central Coast resource area. The capacity and annual generation potential is tabulated in Table 9-2.

Table 9-2. Central Coast Projects and CREZs.

	Biomass	Geo-thermal	Solar PV	Solar Thermal	Wind	Total
Capacity (MW)						
CREZ Resources						
Carrizo North				3,800		3,800
Carrizo South				6,400		6,400
Cuyama				800		800
Kern West				200		200
Salinas				2,800		2,800
Santa Barbara	23			1,800	433	2,255
Santa Barbara NE				400		400
Soledad					43	43
Vandenburg					77	77
Non-CREZ Resources			920			920
Total	23		920	16,200	552	17,695
Generation (GWh/yr)						
CREZ Resources						
Carrizo North				6,615		6,615
Carrizo South				11,399		11,399
Cuyama				1,435		1,435
Kern West				308		308
Salinas				4,948		4,948
Santa Barbara	159			3,142	1,180	4,481
Santa Barbara NE				707		707
Soledad					109	109
Vandenburg					230	230
Non-CREZ Resources			2,046			2,046
Total	159		2,046	28,554	1,519	32,278

9.3 Tehachapi / Owens

Table 9-3 shows the projects and CREZs identified in the Tehachapi / Owens resource area. The capacity and annual generation potential is tabulated in Table 9-3.

Table 9-3. Tehachapi / Owens Projects and CREZs.

	Biomass	Geo-thermal	Solar PV	Solar Thermal	Wind	Total
Capacity (MW)						
CREZ Resources						
Castaic					72	72
Fairmont	138			11,800	1,791	13,729
Gorman				1,200	175	1,375
Inyokern				8,200	367	8,567
Kramer		24		13,600	123	13,747
Owens Valley	20	40		20,200		20,260
Tehachapi	90			19,000	3,193	22,283
Non-CREZ Resources	54	8	4,400			4,462
Total	302	72	4,400	74,000	5,721	84,495
Generation (GWh/yr)						
CREZ Resources						
Castaic					223	223
Fairmont	967			26,604	5,365	32,937
Gorman				2,342	449	2,791
Inyokern				19,962	898	20,860
Kramer		168		33,075	286	33,529
Owens Valley	142	280		44,375		44,798
Tehachapi	631			44,679	9,552	54,862
Non-CREZ Resources	378	56	9,683			10,117
Total	2,118	505	9,683	171,038	16,774	200,117

9.4 Southeast California

Table 9-4 shows the projects and CREZs identified in Southeast California. The capacity and annual generation potential is tabulated in Table 9-4.

Table 9-4. Southeast California Projects and CREZs.

	Biomass	Geo-thermal	Solar PV	Solar Thermal	Wind	Total
Capacity (MW)						
CREZ Resources						
Amargosa Valley				28,524	153	28,677
Barstow				2,800	1,031	3,831
Havasu				5,384		5,384
Iron Mountain				34,000	62	34,062
Mountain Pass				15,738	2,108	17,846
Needles				4,400	353	4,753
Palm Springs				400	770	1,170
Pisgah				33,400	1,390	34,790
Riverside Central				1,000		1,000
Riverside East				38,400		38,400
San Bernadino - Baker				7,400		7,400
San Bernadino - Lucerne	91			15,200	599	15,890
Twentynine Palms				10,200		10,200
Victorville				26,200	340	26,540
Non-CREZ Resources			4,020	200		4,220
Total	91		4,020	223,245	6,807	234,163
Generation (GWh/yr)						
CREZ Resources						
Amargosa Valley				64,402	321	64,723
Barstow				6,577	2,804	9,382
Havasu				12,781		12,781
Iron Mountain				78,569	151	78,720
Mountain Pass				35,526	5,107	40,633
Needles				10,245	910	11,155
Palm Springs				980	2,592	3,571
Pisgah				76,747	3,641	80,388
Riverside Central				2,448		2,448
Riverside East				90,581		90,581
San Bernadino - Baker				16,898		16,898
San Bernadino - Lucerne	638			36,211	1,669	38,518
Twentynine Palms				24,498		24,498
Victorville				61,798	905	62,703
Non-CREZ Resources			9,215	360		9,576
Total	638		9,215	518,622	18,100	546,575

9.5 Salton Sea / San Diego

Table 9-5 shows the projects and CREZs identified in the Salton Sea / San Diego resource area. The capacity and annual generation potential is tabulated in Table 9-5.

Table 9-5. Salton Sea / San Diego Projects and CREZs.

	Biomass	Geo-thermal	Solar PV	Solar Thermal	Wind	Total
Capacity (MW)						
CREZ Resources						
Imperial East				15,600	123	15,723
Imperial North	30	1,370		11,800		13,200
Imperial South	36	64		6,200	45	6,345
San Diego East				800		800
San Diego North Central				600	281	881
San Diego South					678	678
Non-CREZ Resources	93		1,640			1,733
Total	159	1,434	1,640	35,000	1,128	39,361
Generation (GWh/yr)						
CREZ Resources						
Imperial East				37,165	337	37,502
Imperial North	210	10,626		26,712		37,548
Imperial South	250	449		14,075	119	14,893
San Diego East				1,786		1,786
San Diego North Central				1,238	739	1,977
San Diego South					1,926	1,926
Non-CREZ Resources	652		3,785			4,437
Total	1,112	11,074	3,785	80,977	3,121	100,069

9.6 North Out-of-State (OR/WA/NV/BC)

Table 9-6 shows the projects and CREZs identified in the North Out-of-State (OR/WA/NV/BC) resource area. There are four Nevada CREZs in this region, one CREZ for Oregon/Washington, and one for British Columbia. The capacity and annual generation potential is tabulated in Table 9-6.

Table 9-6. North Out-of-State (OR/WA/NV/BC) Projects and CREZs.

	Biomass	Geo-thermal	Solar PV	Solar Thermal	Wind	Total
Capacity (MW)						
CREZ Resources						
Churchill		268				268
Mono/Nevada		280		2,400	53	2,733
NW Nevada		148				148
Pershing		268				268
OR/WA	903	520			33,799	35,222
BC	1,520	244			8,130	9,894
Non-CREZ Resources		471				471
Total	2,423	2,199		2,400	41,982	49,003
Generation (GWh/yr)						
CREZ Resources						
Churchill		1,878				1,878
Mono/Nevada		1,962		4,696	134	6,792
NW Nevada		1,037				1,037
Pershing		2,036				2,036
OR/WA	6,328	3,960			76,224	86,512
BC	11,318	1,868			25,203	38,389
Non-CREZ Resources		3,317				3,317
Total	17,646	16,058		4,696	101,561	139,961

9.7 South Out-of-State (NV/AZ/Baja)

Table 9-7 shows the projects and CREZs identified in the South Out-of-State (NV/AZ/Baja) resource area. The capacity and annual generation potential is tabulated in Table 9-7.

Table 9-7. South Out-of-State (NV/AZ/Baja) Projects and CREZs.

	Biomass	Geo-thermal	Solar PV	Solar Thermal	Wind	Total
Capacity (MW)						
CREZ Resources						
Baja					2,773	2,773
La Paz				27,203		27,203
Las Vegas				13,605		13,605
Yuma				3,871		3,871
Non-CREZ Resources			40			40
Total			40	44,679	2,773	47,492
Generation (GWh/yr)						
CREZ Resources						
Baja					8,014	8,014
La Paz				65,996		65,996
Las Vegas				29,086		29,086
Yuma				9,319		9,319
Non-CREZ Resources			95			95
Total			95	104,400	8,014	112,509

Appendix A. U.S. Bureau of Land Management Lease Applications

RETI Phase 1B Draft Report
Appendix A
BLM Land Lease Applications as of August 13, 2008

State	County	Region	Applicant	Date Application received	Acres	MW	Technology Category	Planned Technology	Data source	Source date	Status of Application	Serial Number CACA	DWMA, Critical Habitat, ACEC, MUC Class	Comments
AZ	Maricopa	Hassayampa	Ausra AZ II LLC	10/1/2007	9950	180	Solar	Parabolic-Trough	BLM	12-May-08	Received $25K Cost Recovery deposit. No POD	34321AZA	Wildlife (Big Horn sheep) corridore issues	
AZ	Maricopa	Hassayampa	Boulevard Associates LLC	6/26/2007	7375	250	Solar	Parabolic-Trough	BLM	12-May-08	Received $25K Cost Recovery deposit.	34184AZA	Wildlife (Big Horn sheep) corridore issues	
AZ	Maricopa	Hassayampa	Boulevard Associates LLC	6/26/2007	6232	250	Solar	Parabolic-Trough	BLM	12-May-08	Received $25K Cost Recovery deposit.	34186AZA	Wildlife (Big Horn sheep) corridore issues	
AZ	Mohave	Kingman	Boulevard Associates LLC	6/22/2007	4787	250	Solar	Parabolic-Trough	BLM	12-May-08	Incomplete	34200AZA		
AZ	Mohave	Kingman	Boulevard Associates LLC	6/22/2007	15654	250	Solar	Parabolic-Trough	BLM	12-May-08	Incomplete	34201AZA	Unknown	
AZ	Mohave	Lake Havasu	Boulevard Associates LLC	6/8/2007	24221	250	Solar	Parabolic-Trough	BLM	12-May-08	Send cost reimbursement agreement	34335AZA		
AZ	Tuolumne	Lower Sonoran	Boulevard Associates LLC	6/26/2007	13440	250	Solar	Parabolic-Trough	BLM	12-May-08	Received $25K Cost Recovery deposit.	34187AZA		
AZ	Mohave	Lake Havasu	Horizon Wind Energy LLC	3/4/2008	28760		Solar	Parabolic-Trough	BLM	12-May-08	Draft letter to applicant requesting more information.	3AZA		
AZ	Yuma	Yuma	NextLight Renewable Power, LLC	3/26/2008	23500	500	Solar	Parabolic-Trough	BLM	12-May-08	YFO is preparing cost recomvery lette,r have not had a pre-application meeting, start of NEPA is pending establishment of cost recovery account and receipt of completed POD	34568AZA	Water Supply, possible VRM, cultural and biological concerns, no surveys have been conducted	
AZ	Yuma	Yuma	NextLight Renewable Power, LLC	3/26/2008	15000	500	Solar	Parabolic-Trough	BLM	12-May-08	YFO is preparing cost recovery letter, have only had a pre-application meeting, start of NEPA is pending establishment of cost recovery account and receipt of completed POD	34560AZA	Water Supply, possible, cultural and biological concerns, no surveys have been completed	
AZ	Yuma	Yuma	NextLight Renewable Power, LLC	3/26/2008	15000	500	Solar	Parabolic-Trough	BLM	12-May-08	YFO is preparing cost recovery letter, have only had a pre-application meeting, start of NEPA is pending establishment of cost recovery account and receipt of completed POD	34561AZA	Water Supply, possible VRM, cultural and biological concerns, no surveys have been conducted	
AZ	Yuma	Yuma	NextLight Renewable Power, LLC	3/26/2008	14000	500	Solar	Parabolic-Trough	BLM	12-May-08	YFO is preparing cost recovery letter, have only had a pre-application meeting, start of NEPA is pending establishment of cost recovery account and receipt of completed POD	34566AZA	Water Supply, possible VRM, cultural and biological concerns, no surveys have been conducted	
AZ	Yuma	Yuma	NextLight Renewable Power, LLC	3/26/2008	20699	500	Solar	Parabolic-Trough	BLM	12-May-08	YFO is preparing cost recovery letter, have only had a pre-application meeting, start of NEPA is pending establishment of cost recovery account and receipt of completed POD	34554AZA	Water Supply, VRM conceerns within view oshed of KOFA Wildlife Refuge and Wilderness, survey not started while proponent working on developing information concerning water supply and a	
AZ	Tuolumne	Lower Sonoran	Opti-Solar Inc.	11/6/2007	6100	300	Solar	Photovoltaic	BLM	12-May-08	Received $25K Cost Recovery deposit.	34357AZA		
AZ	Tuolumne	Lower Sonoran	Opti-Solar Inc.	11/6/2007	6400	300	Solar	Photovoltaic	BLM	12-May-08	Received $25K Cost Recovery deposit.	34358AZA		
AZ	Maricopa	Hassayampa	Pacific Solar	12/4/2007	13400	500	Solar	Parabolic-Trough	BLM	12-May-08	Received $25K Cost Recovery deposit.	34424AZA	Wildlife (Big Horn sheep) corridore issues	
AZ	Tuolumne	Lower Sonoran	Pacific Solar	12/7/2007	5800	500	Solar	Parabolic-Trough	BLM	12-May-08	Received $25K Cost Recovery deposit.	34425AZA		
AZ	Yuma	Yuma	Pacific Solar Investments	12/2/2004	19000	1500	Solar	Parabolic-Trough	BLM	12-May-08	Received $25K Cost Recovery deposit.	34416AZA	Water Supply, VRM concerns, area near and partially within area proposed as an Area with Wilderness Characteristics by public during RMP Revision scoping.	
AZ	Yuma	Yuma	Pacific Solar Investments	12/2/2007	26000	2000	Solar	Parabolic-Trough	BLM	12-May-08	YFO is preparing cost recovery letter, have only had a pre-application meeting, start of NEPA is pending establishment of cost recovery account and receipt of completed POD	34426AZA	Water Supply, VRM concerns, area near and partially within area proposed as an Area with Wilderness Characteristics by public during RMP Revision scoping.	
AZ	Yuma	Yuma	Pacific Solar Investments	6/6/2007	32000	2000	Solar	Parabolic-Trough	BLM	12-May-08	Received $25K Cost Recovery deposit.	34427AZA	Water Supply, VRM concerns, area near and partially within area proposed as an Area with Wilderness Characteristics by public during RMP Revision scoping.	
CA	Kern	Ridgecrest	AES/SEAWEST	3/19/07	4000	500	Solar	Parabolic-trough Met towers	BLM	12-May-08	1st and 2nd in line Letter issued 7/2/07 Rejected: in MGSHCA 1/11/08		MUC: Limited MGS Habitat Conservation Area	24th in line
CA	Riverside	Palm Springs	Altera Power Ventures, LLC	6/13/07	6629	2500	Solar	Photovoltaic	BLM	12-May-08	Sent app. Rec'd & case # wating for POD		49097 MUC: Limited	
CA	Riverside	Palm Springs	Altera Power Ventures, LLC	6/13/07	8742	1000	Solar	Photovoltaic	BLM	12-May-08	Sent app. Rec'd & case # wating for POD		49098 MUC: Limited	
CA	Imperial	El Centro	BCL & Associates	7/17/07	5587	500	Solar	Photovoltaic	BLM	12-May-08	POD submitted. Acreage adjusted outside FTHL management Area. MOU signed. 5101 established		Portion in Flat-tailed horned lizard (FTHL) management area. Cap on disturbance & 5:1 49150 compensation. MOU with Navy. Solar project proposed on private land to the South Military: Red	
CA	San Bernardino	Needles	Boulevard Associates, LLC	5/14/07	12160	1000	Solar	Solar Trough	BLM	12-May-08			49006	
CA	San Bernardino	Needles	Boulevard Associates, LLC	5/14/07	35200	1000	Solar	Solar Trough	BLM	12-May-08			49008	
CA	San Bernardino	Needles	Boulevard Associates, LLC	9/21/07	9600		Solar	Solar Trough	BLM	12-May-08	2nd behind wind energy project			8th in line
CA	San Bernardino	Needles	Boulevard Associates, LLC	5/14/07	7306	1000	Solar	Solar Trough	BLM	12-May-08	2nd in time for most of site location.			10th in line
CA	San Bernardino	Needles	Boulevard Associates, LLC	5/14/07	15040	1000	Solar	Solar Trough	BLM	12-May-08	2nd in time for most of site location.			11th in line
CA	San Bernardino	Needles	Boulevard Associates, LLC	5/14/07	8480	1000	Solar	Solar Trough	BLM	12-May-08	2nd in time for most of site location.			12th in line
CA	San Bernardino	Needles	Boulevard Associates, LLC	5/14/07	52480	100	Solar	Solar Trough	BLM	12-May-08	Partial conflict. 2nd in line for part of site location			13th in line
CA	San Bernardino	Needles	Boulevard Associates, LLC	9/21/07	9600		Solar	Solar Trough	BLM	12-May-08	2nd behind wind energy project			19th in line
CA	Riverside	Palm Springs	Bull Frog Green Energy, LLC	1/4/08	22912	2500	Solar	Photovoltaic	BLM	12-May-08	No 5101 account in place, have not received the POD		49702 MUC: Limited	
CA	San Bernardino	BARSTOW	Bull Frog Green Energy, LLC	12/20/07	9600	300	Solar	Photovoltaic	BLM	12-May-08	Application received POD revision needed Initial NEPA review.		49588 MUC: Limited Military: Green	
CA	San Bernardino	BARSTOW	Bull Frog Green Energy, LLC	12/20/07	12160	300	Solar	Photovoltaic	BLM	12-May-08	Application received POD revision needed 3rd in line behind FPL and DPT		MUC: Limited Military: Green	6th in line
CA	San Bernardino	BARSTOW	Cannon Power, Inc.	2/26/07	13440	1000	Solar	Photovoltaic	BLM	12-May-08	Application & POD complete EIS required. Statement of Work (SOW) and MOU pending 5101 established		49350 MUC: Limited, Moderate, Intensive & Unclassified Military: Blue	
CA	San Bernardino	BARSTOW	Chevron Energy Solutions Co.	12/7/07	367	40	Solar	Photovoltaic	BLM	12-May-08	Application received POD revision pending		49561 MUC: Limited	
CA	Riverside	Palm Springs	Chevron Energy Solutions Co. #1	2/15/07	3119	100	Solar	Parabolic Trough	BLM	12-May-08	Received 5101 funds.		48811 MUC: Limited	
CA	Riverside	Palm Springs	Chevron Energy Solutions Co. #2	2/15/07	3119	100	Solar	Parabolic Trough	BLM	12-May-08	Received 5101 funds.		48810 Conflicts with utility corridor and other ROW's - north of I-10	
CA	Riverside	Palm Springs	Chuckwalla Solar LLC	9/14/06	4098	200	Solar	Photovoltaic	BLM	12-May-08	Received 5101 funds. NOI being sent out (for publication) in Federal Register 11/9/07		48808 MUC: Limited	
CA	Lassen	EAGLE LAKE	DBK Solar Utilities of California	5/3/2007		200	Solar	Solar Hydrogen	BLM	12-May-08	Application not complete. Second deviciency letter mailed 2/12/08. Allowed 60 days to respond.		49443	
CA	San Bernardino	BARSTOW	DPT Boradwell Lake LLC	1/24/07	5130	500	Solar	Power tower	BLM	12-May-08	Application complete POD received. EIS required 5101		48875 MUC: Limited & Moderate MILITARY: RED	
CA	San Bernardino	BARSTOW	EnXco Development, Inc.	12/27/07	3840	1000	Solar	Parabolic Trough	BLM	12-May-08	Application received. Revised map. POD revision pending		49585 MUC: Limited	
CA	San Bernardino	BARSTOW	EnXco Development, Inc.	12/27/07	3200	1000	Solar	Solar Trough	BLM	12-May-08	Application rreceived 3rd in line to Florida Power & Light Energy Black Butte		MUC: Limited Moderate	4th in line
CA	San Bernardino	BARSTOW	EnXco Development, Inc.	12/27/07	3840	1000	Solar	Solar Trough	BLM	12-May-08	Application received 2nd in line to Solar Investments		MUC: Limited Moderate	5th in line
CA	Riverside	Palm Springs	EnXco Development, Inc.	11/13/07	2070	300	Solar	Parabolic Trough	BLM	12-May-08	Rec'd app & case# Waiting POD		49488 MUC: Limited	
CA	Riverside	Palm Springs	EnXco Development, Inc.	11/13/07	11603	300	Solar	Parabolic Trough	BLM	12-May-08	Rec'd app & case# Waiting POD		49489 MUC: Limited	
CA	Riverside	Palm Springs	EnXco Development, Inc.	11/13/07	12879	300	Solar	Parabolic Trough	BLM	12-May-08	Rec'd app & case# Waiting POD		49490 MUC: Limited	
CA	Riverside	Palm Springs	EnXco Development, Inc.	11/13/07	1071	300	Solar	Parabolic Trough	BLM	12-May-08	Rec'd app & case# Waiting POD		49491 MUC: Limited	
CA	Riverside	Palm Springs	EnXco Development, Inc.	11/13/07	1216	300	Solar	Parabolic Trough	BLM	12-May-08	Rec'd app & case# Waiting POD		49492 MUC: Limited	
CA	Riverside	Palm Springs	Florida Power & Light	1/31/07	7773	250	Solar	Parabolic Trough	BLM	12-May-08	ROW in process for monitoring, water well drilling.		48728 MUC: Limited	
CA	Riverside	Palm Springs	Florida Power & Light	1/31/07	4491	250	Solar	Parabolic Trough	BLM	12-May-08	Received 5101 funds		48880 MUC: Limited	
CA	San Bernardino	BARSTOW	FPL Energy, Inc.	4/24/07	7680	1200	Solar	Parabolic Trough	BLM	12-May-08	App. Complete. Adjustments to project boundary in process. 5101 pending. EIS required w/ CEC. 5101 pending due to		49051 MUC: Moderate Cultural Heritage Landscape concerns Military: Red	
CA	San Bernardino	BARSTOW	FPL Energy, Inc.	4/24/07	6400	1000	Solar	Parabolic Trough	BLM	12-May-08	Application complete & on hold. Draft POD revision pending 2nd in line after Sterling Energy.		MUC: Limited & Moderate MILITARY: RED	2nd in line
CA	San Bernardino	BARSTOW	FPL Energy, Inc.	9/19/07	13440	1,000-2,000	Solar	Solar Trough	BLM	12-May-08	Application complete & on hold Draft POD received 2nd in line to Brighsource		MUC: Limited MILITARY: RED	3rd in line
CA	Kern	Ridgecrest	IDIT, INC	3/23/07	8000	1000	Solar	Parabolic-Trough	BLM	12-May-08	3rd in line Letter issued 7/21/07 Rejected: as non-responsive 1/11/78. Failed to respons to 7/2/07 letter		MUC: Limited MGS Habitat Conservation Area	23rd in line
CA	San Bernardino	Needles	IDIT, Inc.	3/16/07	0	500	Solar	Solar Trough	BLM	12-May-08	Sent 1st in time letter		48965 MUC: Moderate Military base border. Possible groundwater concern	
CA	San Bernardino	Needles	IDIT, Inc.	3/16/04	6080	500	Solar	Solar Trough	BLM	12-May-08			48999 MUC: Moderate Military base border. Possible groundwater concern.	
CA	San Bernardino	Needles	IDIT, Inc.	4/24/07	7000	500	Solar	Solar Trough	BLM	12-May-08	2nd in time for most of sit location.		MUC: Limited & Moderate	9th in line
CA	San Bernardino	Needles	Leopold Companies, Inc.	4/2/07	37760	4100	Solar	Concentrated solar power (ENTECH	BLM	12-May-08			49002 MUC: Moderate	
CA	San Bernardino	BARSTOW	Opti-solar, Inc.	2/26/07	14440	1205	Solar	Photovoltaic	BLM	12-May-08	Application complete POD complete EIS required 5101 set up		48818 MUC: Moderate Military: Green	
CA	San Bernardino	BARSTOW	Opti-solar, Inc.	2/26/07	13400	1000	Solar	Photovoltaic	BLM	12-May-08	Application complete POD complete. EIS required 5101 set up		48819 MUC: Moderate, Limited, Intensive & Unclassified Military: Blue	
CA	San Bernardino	BARSTOW	Opti-solar, Inc.	5/4/07	4500	585	Solar	Photovoltaic	BLM	12-May-08	Application complete POD complete, EIS required. 5101 set up Consultant proposals pending.		48841 MUC: Moderate, Adjacent to Harper ACEC (exclusion)	
CA	San Bernardino	BARSTOW	Opti-solar, Inc.	10/9/07	4500	500	Solar	Photovoltaic	BLM	12-May-08	Application complete POD complete EIS required 5101 pending		49061 MUC: Limited, Moderate Adjacent to Johnson Valley OHV Area	
CA	San Bernardino	BARSTOW	Opti-solar, Inc.	10/9/07	2500	500	Solar	Photovoltaic	BLM	12-May-08	Application complete. POD complete. Pending meeting with applicant for SOW, RFP for joint EIS/EIR with SBCO.		49357 MUC: Limited Military: Green	
CA	Imperial	El Centro	Opti-solar, Inc.	12/3/07	6000	1500	Solar	Photovoltaic	BLM	12-May-08	POD submitted with application. Acreage needs to be refined. Working w/ applicant to identify		49613 MUC: Limited & Moderate. Military: Red	
CA	San Bernardino	Needles	Opti-solar, Inc.	12/14/06	4160	350	Solar	Photovoltaic	BLM	12-May-08	1/4 cost recovery received ($40,767) Project Code assigned $ transferred into 5101		48669 MUC: Limited Recreation	
CA	Riverside	Palm Springs	Opti-solar, Inc.	11/7/06	14784	350	Solar	Photovoltaic	BLM	12-May-08	Received 5101 funds		48649 MUC: Limited	
CA	Riverside	Palm Springs	Opti-solar, Inc.	9/28/07	7257	600	Solar	Photovoltaic	BLM	12-May-08	Rec'd Case # Waiting POD		49397 MUC: Limited	
CA	Kern	Ridgecrest	Opti-solar, Inc.	2/13/07	6000	745	Solar	Photovoltaic	BLM	12-May-08	POD on file; this was filed 1st in line conflicts w/ CACA49015. Letter issued June 15, 2007 Deposited 1/3 estimated 5101 cost		48820 MUC: Limited	
CA	Kern	Ridgecrest	Opti-solar, Inc.	4/3/07	7200	745	Solar	Photovoltaic	BLM	12-May-08	IBLA has issued a Stay on the Rejection and requiring a settlement conference.		49017 This application was initially rejected by BLM on 1/17/05 for being in the Mojave Ground Squirrel	
CA	Kern	Ridgecrest	Opti-solar, Inc.	11/28/07	7400	600	Solar	Photovoltaic	BLM	12-May-08	Draft POD of submitted along with application, enough information available to move forward, pending negotiations with BLM.		49511 This application was initially rejected by BLM on 1/17/05 for being in the Mojave Ground Squirrel MUC: Limited & Moderate. Recreation & OHV conflicts Native America/arch. Cat. III Tortoise	
CA	Imperial	El Centro	Pacific Solar Investments, Inc.	9/5/07	25000	1500	Solar	Solar Trough	BLM	12-May-08	POD submitted with application acrrrrrrreage needs to be refined. Working w/ applicant to identify issues. No cost recovery yet.		49615 habitat, tortoise compensation New 10+ mile 500kV transmission line Military: Red	
CA	San Bernardino	Needles	Pacific Solar Investments, Inc.	9/20/07	1600		Solar	Solar Trough	BLM	12-May-08	1st in line		49430	
CA	San Bernardino	Needles	Pacific Solar Investments, Inc.	8/27/07	9600		Solar	Solar Trough	BLM	12-May-08	2nd in line			18th in line
CA	San Bernardino	Needles	PG&E	9/11/07	18000		Solar		BLM	12-May-08	1st in line		49429 Partial ACEC	
CA	San Bernardino	Needles	PG&E	9/24/07	5760		Solar		BLM	12-May-08	1st in line		49432	
CA	San Bernardino	Needles	PG&E	8/31/07	5900		Solar		BLM	12-May-08	2nd in line			20th in line
CA	Kern	Ridgecrest	Power Partners Southwest - EnXco	10/23/07	1920	300	Solar	Parabolic-trough	BLM	12-May-08	2nd in time/2nd in line behind OptiSolar CACA 48820		MUC: Limited	21st in line
CA	Imperial	El Centro	Power Partners, Southwest, LLC	1/22/08	240	300	Solar	Parabolic Trough	BLM	12-May-08	Starting to work with applicant.		49614 MUC: Unclassified FTHL habitat Possible arch. Sites Military: Red	
CA	Imperial	El Centro	Power Partners, Southwest, LLC	9/24/07	7000	300	Solar	Parabolic Trough	BLM	12-May-08	2nd in line application over Sterling SES II		MUC: Limited Military: Red	7th in line
CA	Imperial	El Centro	SkyGen Solar LLC (c/o Invenergy)	12/10/07	1040	50	Solar	Undecided	BLM	12-May-08	Sent "application received/serial number assigned" letter		49513 MUC: Limited between Hwy. 86 and Salton Sea Military: Green	
CA	Imperial	El Centro	SkyGen Solar LLC (c/o Invenergy)	12/10/07	920	50	Solar	Undecided	BLM	12-May-08	Sent "application received/serial number assigned" letter		49514 Class L lands between Hwy 111 Coachella Canal Military: Red	
CA	San Bernardino	BARSTOW	Solar Farms - Apple Valley LLC	1/10/08	3200	300	Solar	Solar Thermal Quad Dishes	BLM	12-May-08	Application received POD revision needed.		49852 MUC: Limited	
CA	San Bernardino	Needles	Solar Investments I LLC	12/20/06	10880	1000	Solar	Parabolic Trough	BLM	12-May-08	1/4 cost recovery received ($199,047) 3 of 4 projects		48760 MUC: Moderate Possible groundwater concern. Landscape issue along Historic Route 66	
CA	San Bernardino	Needles	Solar Investments I LLC	3/23/07	5440	1000	Solar	Parabolic Trough	BLM	12-May-08	Application accepted/rejected, in part 3/23/07. 1/4 cost recovery rec'd ($199,047) 4 of 4 projects		48778 MUC: moderate & limited Partial DWMA Partial Critical habitat (desert tortoise)	
CA	San Bernardino	BARSTOW	Solar Investments VI LLC (G-S)	1/18/07	6400	800	Solar	Solar Trough	BLM	12-May-08	Application complete POD received. EIS required 5101		48741 MUC: Limited & Unclassified Military: Green	
CA	San Bernardino	Needles	Solar Investments VIII LLC	1/18/07	5520	1000	Solar	Parabolic Trough	BLM	12-May-08	1/4 cost recovery received ($199,047) 1 of 4 projects		48758 MUC: Moderate Possible groundwater concern	
CA	San Bernardino	BARSTOW	Solar Investments XI LLC (G-S)	1/18/2007	10000	1200	Solar	Parabolic Trough	BLM	12-May-08	Application complete POD received. EIS required 5101 pending - paperwork pending		48743 MUC: Moderate Military: Red	
CA	San Bernardino	Needles	Solar Investments XIII LLC	1/18/07	8960	1000	Solar	Parabolic Trough	BLM	12-May-08	1/4 cost recovery received ($199,047) 2 of 4 projects		48759 MUC: Moderate Possible groundwater concern	
CA	San Bernardino	BARSTOW	Solar Investments, Inc.	1/18/07	9600	1000	Solar	Parabolic Trough	BLM	12-May-08	Application complete POD received. EIS required 5101 pending - paperwork pending		48742 MUC: Moderate Military: Red	
CA	Kern	Ridgecrest	Solar Millennium LLC	3/14/07	11200	1000	Solar	Parabolic-Trough	BLM	12-May-08	1st & 2nd in line. Deficiency letter in prep. Status check will be 30 days from receipt. Letter issued 6/29/07 Rejected: in		MUC: Limited	22nd in line
CA	Riverside	Palm Springs	Solar Millennium, LLC	10/22/07	2753	500	Solar	Parabolic Trough	BLM	12-May-08	Rec'd app & case# Waiting POD		49486 MUC: Limited	
CA	Kern	Ridgecrest	Solar Millennium, LLC	3/23/07 11/17/06 (original) 12/14/06 (modified) 1/22/07	11000	745	Solar	Parabolic Trough	BLM	12-May-08	Letter issued June 29, 2007 Only applicant		49016 MUC: Limited	
CA	San Bernardino	Needles	Solar Partners Ivanpah SEGS (DPT Ivanpah LLC)	(modified)	6270	400	Solar	Power Tower	BLM	12-May-08	CACA 49502, 49503, 49504 Modified application twice to increase acreage. 1/4 cost recovery received ($42,280) Project Code assigned $ transferred into 5101 account		48668 MUC: Limited Groundwater use recreation	
CA	San Bernardino	Needles	Solar Partners V	4/30/07	15000		Solar	Power tower	BLM	12-May-08	2nd behind wind companies working together			14th in line
CA	San Bernardino	BARSTOW	Solar Partners X, LLC	9/19/07	5200	600	Solar	Power tower	BLM	12-May-08	Application complete		49403 MUC: Moderate MILITARY: RED	
CA	Imperial	El Centro	SolarReserve, LLC	4/24/08	3840	120	Solar	Power Tower	BLM	12-May-08	So far have only had time to serialize it		49884 MUC: Limited Military: Red	
CA	Riverside	Palm Springs	Solel Inc.	11/7/07	8775	500	Solar	Parabolic Trough	BLM	12-May-08	Sending App. Recd & 5101 Letter		49493 MUC: Limited	
CA	Riverside	Palm Springs	Solel Inc.	11/7/04	7511	500	Solar	Parabolic Trough	BLM	12-May-08	Sending App. Recd & 5101 Letter		49494 MUC: Limited	
CA	San Bernardino	Needles	Solel, Inc.	7/23/07	7680		Solar	Solar Trough	BLM	12-May-08	Partial conflict. 2nd in line for part of site			15th in line
CA	San Bernardino	Needles	Solel, Inc.	7/23/07	6000		Solar	Solar Trough	BLM	12-May-08	2nd in line			16th in line
CA	San Bernardino	Needles	Solel, Inc.	9/5/07	6000		Solar	Solar Trough	BLM	12-May-08	3rd in line			17th in line
CA	San Bernardino	BARSTOW	Solenergis, LLC	12/18/2007	1664	350	Solar	Photovoltaic	BLM	12-May-08	Application received POD revision received EIS required		49584 MUC: Limited Military: Green	
CA	San Bernardino	BARSTOW	Stirling Energy Systems, Inc. Solar 1	11/15/06	6779	914	Solar	Sterling Engines	BLM	12-May-08	AFC & EIS pending with CEC as CEQA lead. Received completed amended application June 2007. Five separate locations.		47702 MUC: Limited & Moderate MILITARY: RED	
CA	San Bernardino	BARSTOW	Stirling Energy Systems, Inc. Solar 6	3/14/07	12365	692	Solar	Sterling Engines	BLM	12-May-08	Received 3/2007 - subdivided project from original Solar One		49539 MUC: Moderate MILITARY: RED	
CA	San Bernardino	BARSTOW	Stirling Energy Systems, Inc. Solar 8	3/14/07	10044	1631	Solar	Sterling Engines	BLM	12-May-08	Received 3/2007 - subdivided project from original Solar One		49540 MUC: Moderate MILITARY: RED	
CA	San Bernardino	BARSTOW	Stirling Energy Systems, Inc. Pilot site	11/15/06	15	1	Solar	Sterling Engines	BLM	12-May-08	Application complete EA in progress (5101)		48563 MUC: Limited & Moderate	
CA	San Bernardino	BARSTOW	Stirling Energy Systems, Inc. Solar 3	3/14/07	4810	605	Solar	Sterling Engines	BLM	12-May-08	Received 03/2007 - subdivided project from original Solar One		49537 MUC: Moderate MILITARY: RED	
CA	Imperial	El Centro	Stirling Energy Systems, Inc. (SES) Solar Two LLC	1/16/06	7000	900	Solar	Sterling Engines	BLM	12-May-08	5101 funds received. Anticipate joint EIS/IER with CEC as CEQU lead. Pending Application for Certification to CEC		47740 Flat-tailed horned lizard habitat (FTHL) outside Management Area (defined in Range-wide plan)	
CA	Imperial	El Centro	Imperial Wind	7/1/06	1960		Wind	Met Towers	BLM	12-May-08	Pending NEPA (DNA) and Native American consultation, as required by SHPO. (ROW previously authorized to another party		48272 NECO; Class III Tortoise habitat; archaeological and Native American religious concerns MUC:	
CA	Imperial	El Centro	Renewergy, LLC	12/26/05	11187		Wind	Met Towers	BLM	12-May-08	Testing & monitoring ROW issued 1/2007; 1 met tower installed		47751 NECO outside DWMA; archaeological and Native American religious concerns, MUC: Limited	
CA	Kern	Bakersfield	Boulevard Associates LLC	8/22/05	3680		Wind	Met Towers	BLM	12-May-08	Pending - Lands in both Ridgecrest and Bako FOs, RFO IS LEAD OFFICE		47847	
CA	Kern	Ridgecrest	Renewergy, LLC	7/28/06	14209		Wind	Met Towers	BLM	12-May-08	29-day letter MOA for cost recovery Category VI		48948 MUC: Limited, Moderate Military: Red	
CA	Kern	Ridgecrest	Competitive Power Ventures LLC	8/10/07	5000		Wind	Met Towers	BLM	12-May-08	29-day letter MOA for cost recovery Category VI		49547 MUC: Limited Military: Red	
CA	Kern	Ridgecrest	RES/North America	11/27/2002	742		Wind	Met Towers	BLM	12-May-08	Issuing grant		45385 MUC: Limited, moderate Military: Red	
CA	Kern	Ridgecrest	Sean Roberts	7/1/04	267		Wind	Met Towers	BLM	12-May-08	Initiating EA for monitoring sites		46978 MUC: Limited Military: Green	

RETI Phase 1B Draft Report
Appendix A
BLM Land Lease Applications as of August 13, 2008

CA	Kern	Ridgecrest	Sierra Renewables LLC	11/1/2007	2554		Wind	Met Towers	BLM	12-May-08	29-day letter MOA for cost recovery Category VI		49581 MUC: Limited Military: Red
CA	San Benito	Hollister	High Rock Holding LTD	8/29/06	5000		Wind	Met Towers	BLM	12-May-08	PENDING		48534
CA	San Benito	Hollister	Invenergy LLC	7/17/06 1/18/07	4160		Wind	Met Towers	BLM	12-May-08	AUTHORIZED		48110
CA	Lassen	Eagle Lake	Distribution Generation Systems	2/23/06 11/01/06	5542		Wind	Met Towers	BLM	12-May-08	AUTHORIZED		47957
CA	Lassen	Eagle Lake	Horizon Wind Energy	12/24/06	1.5		Wind	Met Towers	BLM	12-May-08	AUTHORIZED Applicant submitted an amendment on 5/2/07 Applicant submitted POD on 3/6/07		48927
CA	Lassen	Eagle Lake	Orion Energy LLC	11/12/02 02/24/04	5937		Wind	Met Towers	BLM	12-May-08	AUTHORIZED		45025
CA	Riverside	Palm Springs	Mesa	3/14/07	477	35	Wind	Repower	BLM	12-May-08	Awaiting additional info.	11688-A	MUC: Limited
CA	Riverside	Palm Springs	AES/SeaWest	1/24/05	265	75	Wind	New project & Repower	BLM	12-May-08	EIS in final review Sec. 7 conslutation w/ USFWS in process		46286 MUC: Limited
CA	Riverside	Palm Springs	Edom Hill	1/5/07	360	20	Wind	Repower	BLM	12-May-08	EA in review Awaiting bilogical & cultural		14632 MUC: Limited
CA	Riverside	Palm Springs	Mark Tech	12/27/02	74	5	Wind	Amendment completed	BLM	12-May-08	Amendment complete		41695 MUC: Limited
CA	San Bernardino	Needles	eWindFarm, Inc.	12/4/06	6460		Wind	Met Towers	BLM	12-May-08	Part is in Palm Springs field office boundary. Pending. Delay in part due to potential wilderness conflict in PSFO		48757 Military zone - can't tell CAMA
CA	San Bernardino	Needles	Renewergy, LLC	8/2/06	2080		Wind	Met Towers	BLM	12-May-08	Pending. Rec'd $19k.		48663 Military zone - can't tell CAMA
													Adjacent to Little Picacho Wilderness Area; Class III Tortoise Habitat; Archeeological & Native
CA	Imperial	El Centro	Clipper Windpower, Inc.	10/1/04	1318		Wind	Met Towers	BLM	12-May-08	Applicant was advised they need to prepare an EA due to staff workload. EA pending.		46618 American Religious concerns; MUC: Limited Military: Green
CA	San Bernardino	Needles	Renewergy, LLC	8/7/06	17320		Wind	Met Towers	BLM	12-May-08	Pending. Rec'd $19k.		48664 Military zone - can't tell DWMA Desert Tortoise Critical Habitat
CA	San Bernardino	Needles	PPM Energy	10/15/02 8/4/06	2330	75	Wind	Testing & monitoring	BLM	12-May-08	Pending - perfecting POD for outsource NEPA work. POD rec'd 8/04/06		44988 Mining claims; Mojave National Preserve border; ACEC border Military: Red
CA	San Bernardino	Needles	Clipper Windpower, Inc.	3/6/02 5/1/06	3360	50	Wind	Testing & monitoring	BLM	12-May-08	Pending - perfecting POD for outsource NEPA work. POD rec'd 9/20/04		44236 Mojave National Preserve border Military: Red
CA	Imperial	El Centro	Wind Hunter	9/1/05	6280		Wind	Met Towers	BLM	12-May-08	EA out for 30 day public review (ended April 3); FONSI and Decision Record delayed due to Native American consultation, as		47518 Adjacent to but outside of PBHS Critical Habitat; FTHL habitat outside of Management Area MUC:
CA	San Bernardino	Needles	UPC Wind Management	8/11/05	10720		Wind	Testing & monitoring	BLM	12-May-08	Incomplete with conflict - disputed by applicant. WO350 involvement deemed 1st in line. Rec'd addt'l info 1/16/07		47539 Incomplete application disputed by applicant. Conflict with two later applications.
CA	San Bernardino	Needles	Shell WindEnergy	7/26/06	24640		Wind	Met Towers	BLM	12-May-08	Pending. Rec'd $29k. Project number to be set up		48306 Wilderness border; Military base border; CAMA Military: Green
CA	San Bernardino	Needles	Renewergy, LLC	7/26/2006	7760		Wind	Met Towers	BLM	12-May-08	Pending - cost recovery paperwork sent 8/25/06 sent back signed contracts		48287 Wilderness border; Military base border; CAMA Military: Green
CA	San Bernardino	Needles	Oak Creek Energy	8/11/06	25600		Wind	Met Towers	BLM	12-May-08	Pending. Rec'd $15k		48667 Wilderness border; Military base border; CAMA Military: Green
CA	San Bernardino	Barstow	Oak Creek Energy Systems, Inc.	8/11/05	28160		Wind	Met Towers	BLM	12-May-08			48667 MUC: Moderate Military: Red
CA	San Bernardino	Barstow	Oak Creek Energy	12/1/2006	17290		Wind	Met Towers	BLM	12-May-08	Revised application rec'd 09/2007. Met tower locations & access. 5101/CRA set up Draft EA rec'd 01/2007 pending		48629 MUC: Limited & Moderate
CA	San Bernardino	Barstow	FPL Energy	3/29/07	3248		Wind	Turbines	BLM	12-May-08	POD for CACA-47043		48902 Johnson Valley OHV Area Military: Green
CA	San Bernardino	Barstow	FPL Energy	3/8/2005	2449		Wind	Met Towers	BLM	12-May-08	ROW testing issued Expires 12/08		47043 MUC: Limited Military: Red
CA	San Bernardino	Barstow	UPC Wind Management	3/25/04	10946		Wind	Met Towers	BLM	12-May-08	ROW testing issued Expires 12/09		47102 MUC: Moderate Military: 80% Red, 20% Blue
CA	San Bernardino	Barstow	UPC Wind Management	3/25/04	3458		Wind	Met Towers	BLM	12-May-08	ROW testing issued Expires 12/09		47103 MUC: Moderate Military: Red
CA	San Bernardino	Barstow	Power Parters SW (enXco)	10/10/06	10240		Wind	Met Towers	BLM	12-May-08	Application revision: Met locations & access. Draft EA rec'd 01/2007-5101/CRA set up Pending review/decision		48471 MUC: Limited DWMA, critical habitat Military: Red
CA	San Bernardino	Barstow	Clipper Windpower, Inc.	10/12/2004	6983		Wind	Met Towers	BLM	12-May-08	ROW for testing issued 04/08. Delayed amendment to add met towers, acres & extend to 12/08. Biological & cultural surveys		46623 MUC: Limited Military: Red
CA	San Bernardino	Barstow	GreenWing Energy	5/24/07	8553		Wind	Met Towers	BLM	12-May-08	Initial application incomplete. EA required. 5101 set up Biological & cultural surveys pending.		49053 MUC: Limited, Moderate Military: Blue
CA	San Bernardino	Barstow	Horizon Wind Energy	12/17/04	27808		Wind	Met Towers	BLM	12-May-08	ROW testing issued. Expires 03/09		46804 MUC: Limited, Moderate, critical habitat Military: Red
CA	San Bernardino	Barstow	GreenWing Energy	5/24/07	9546		Wind	Met Towers	BLM	12-May-08	Initial application incomplete. EA required. 5101 set up Biological & cultural surveys pending.		49052 MUC: Limited, Moderate Military: Red
CA	San Bernardino	Barstow	AES Wind Generationr	8/26/2005	2930		Wind	Met Towers	BLM	12-May-08	ROW amendment pending Add 4 more met towers Draft EA review, deemed to need revision. 5101/CRA set up Expires 12/08		48481 MUC: Limited DWMA, critical habitat Military: Green
CA	San Bernardino	Barstow	Pacific Wind Development LLC	8/17/2005	2749		Wind	Met Towers	BLM	12-May-08	ROW testing issued Expires 12/09		47454 MUC: Unclassified Military: Green
CA	San Bernardino	Barstow	AES Seawest	6/20/2001	4231		Wind	Met Towers	BLM	12-May-08	ROW testing issued Expires 12/07		43088 MUC: Moderate Military: Green
CA	San Bernardino	Barstow	Horizon Wind Energy	12/17/04	4479		Wind	Met Towers	BLM	12-May-08	ROW testing issued Expires 12/09		46803 MUC: Limited Military: Green
CA	San Bernardino	Barstow	Verde Resources, Inc.	6/7/2007	3295		Wind	Met Towers	BLM	12-May-08	Initial application incomplete. Ea required. 5101 set up Maps & met locations w/access rec'd 11/2007. Bilogical & cultural		49202 Stoddard Valley OHV Area Military: Green
CA	San Bernardino	Barstow	UPC Wind Management	3/25/04	15837		Wind	Met Towers	BLM	12-May-08	ROW testing issued Expires 12/09		47100 MUC: Limited, Moderate, Intensive Military: Green
CA	San Bernardino	Barstow	Orion BP Alernative Energy	12/15/06	2442	54	Wind	Turbines	BLM	12-May-08	Revised POD for CACA-045097 5101 in progress. Work w/San Bernardino Co. Consultant pending		48658 MUC: Limited Military: Red
CA	San Bernardino	Barstow	Orion Energy LLC	1/8/2003	2442		Wind	Met Towers	BLM	12-May-08	ROW testing renewed w/POD - expires 12/09 see CACA-48658		45097 MUC: Limited Military: Green
											POD complete. NOI/NOP pending EIS/EIR w/SB County POD for CACA-044975 CUP filed w/SB County 5101 account set up.		
CA	San Bernardino	Barstow	RES/North America	7/24/06	1968	72.5	Wind	Met Towers	BLM	12-May-08	Consultant selected; public scoping mtgs. Pending		48254 MUC: Limited Military: 70% Green 30% Blue
CA	San Bernardino	Barstow	RES/North America	12/16/06	1968		Wind	Met Towers	BLM	12-May-08	ROW Amendment - 3yr extension for met study while POD is analysed & avian studies are conducted		44975 MUC: Limited Military: 70% Green 30% Blue
CA	Kern	Ridgecrest	Boulevard Associates	8/22/05	2678		Wind	Met Towers	BLM	12-May-08	EA in staff review. Split between Bakersfield and Ridgecrest offices		47847 MUC: Limited Military: Yellow
CA	Kern	Ridgecrest	Oak Creek Energy	4/3/02	160	20	Wind		BLM	12-May-08	EA in staff review.		13528 Unclassified Military: Yellow
CA	Kern	Ridgecrest	Power Parters SW (enXco)	12/14/06	77		Wind	Met Towers	BLM	12-May-08	Held back for log completion		48767 Unclassified Military: Yellow
CA	Kern	Ridgecrest	Oak Creek Energy	7/25/06	1800		Wind	Met Towers	BLM	12-May-08	29-day letter MOA for cost recovery Category VI		48536 MUC: Unclassified On military base ? Military: White
CA	Kern	Ridgecrest	Power Parters SW (enXco)	8/10/07	1816		Wind	Met Towers	BLM	12-May-08	2nd in line behind Oak Creek (CACA 48536)		49577 MUC: Unclassified Military: White
CA	Kern	Bakersfield	AES Seawest Inc.	4/20/07	200		Wind	Met Towers	BLM	12-May-08	Pending - Lands in both Ridgecrest and Bako FOs, RFO IS LEAD OFFICE		49112
CA	Kern	Ridgecrest	AES/SeaWest	4/23/07	7800		Wind	Met Towers	BLM	12-May-08	Awaiting Renewable Energy Team review. Bakersfield FO jurisdiction.	None	MUC: Limited
CA	Kern	Bakersfield	Airtricity, Inc.	11/20/2007	15286		Wind	Met Towers	BLM	12-May-08	PENDING Lake Isabella		49464
CA	Kern	Bakersfield	Airtricity, Inc.	9/26/07	2673		Wind	Met Towers	BLM	12-May-08	PENDING Polonio		49460
CA	Kern	Bakersfield	Airtricity, Inc.	10/22/07	1		Wind	Met Towers	BLM	12-May-08	PENDING Taft		49459
CA	Mendocino	Ukiah	Airtricity, Inc.	10/3/07	3018		Wind	Met Towers	BLM	12-May-08	PENDING		
											Need to have state office review. 10/24/07 asked for new map and info on solar box technoloby. Part of application may conflict		
CA	San Bernardino	Needles	Airtricity, Inc.	7/6/07	55680		Wind	Testing & monitoring	BLM	12-May-08	with other wind and solar in area. Need to determine others before this one.		49434
CA	San Benito	Hollister	Clipper Windpower Inc.	5/5/04 11/10/04	3330		Wind	Met Towers	BLM	12-May-08	CLOSED…they did not want to persue a Type 3 ROW		46202
CA	Mendocino	Ukiah	Clipper Windpower, Inc.	6/11/07	9000		Wind	Met Towers	BLM	12-May-08	PENDING		
CA	Lassen	Carson City	CMS Enterprises & Lassen Wind	11/9/06	480		Wind	Met Towers	BLM	12-May-08	AUTHORIZED		47660
CA	Mendocino	Ukiah	Greenwing Energy	6/8/2007	11160		Wind	Met Towers	BLM	12-May-08	PENDING		
CA	Lassen	Eagle Lake	Horizon Wind Energy	4/5/05 11/17/06	5497		Wind	Met Towers	BLM	12-May-08	AUTHORIZED		47239
CA	Lassen	Eagle Lake	Horizon Wind Energy	5/31/05 5/30/06	3837		Wind	Met Towers	BLM	12-May-08	AUTHORIZED		47241
CA	Lassen	Eagle Lake	Horizon Wind Energy	4/5/06 6/7/06	2560		Wind	Met Towers	BLM	12-May-08	AUTHORIZED		47240
CA	Lassen	Eagle Lake	Horizon Wind Energy	5/31/05 5/19/06	2222		Wind	Met Towers	BLM	12-May-08	AUTHORIZED		47238
CA	Lassen	Eagle Lake	Horizon Wind Energy	12/24/06	2.5		Wind	Met Towers	BLM	12-May-08	AUTHORIZED		48927
CA	San Benito	Hollister	Horizon Wind Energy	11/24/06 6/12/07	1.1		Wind	Met Towers	BLM	12-May-08	AUTHORIZED Lands in both Bakersfield and Hollister Fos. HFO IS LEAD OFFICE		48630
CA	San Bernardino	Barstow	Horizon Wind Energy	12/17/04	10073		Wind	Met Towers	BLM	12-May-08	ROW testing issued. Expires 12/09		46805 MUC: Unclassified, Moderate Military: Red
CA	San Bernardino	Barstow	Horizon Wind Energy	12/22/04	720		Wind	Met Towers	BLM	12-May-08	ROW testing issued Expires 12/09		46844 MUC: Limited Moderate Military: Red
CA	Lassen	Alturas	Invenergy LLC	4/28/06 11/7/06	2888		Wind	Met Towers	BLM	12-May-08	Authorized		48119
CA	Lassen	Eagle Lake	Invenergy LLC	11/7/06 4/30/07	93919		Wind	Met Towers	BLM	12-May-08	AUTHORIZED		48696
CA	Lassen	Eagle Lake	Lassen Wind Generation LLC (CMS Energy)	4/6/05 9/16/05	19402		Wind	Met Towers	BLM	12-May-08	AUTHORIZED Applicant submitted an amendment for additional testing acres on 12/26/06. Applicant submitted POD on 5/3/07		47242
CA	San Bernardino	Needles	Oak Creek Energy	8/6/06	7660		Wind	Met Towers	BLM	12-May-08	Pending - Joint project with Las Vegas FO Rec'd $15k.		48666 Mojave National Preserve border; Mining claims; Scenic values Military: Red
CA	Kern	Ridgecrest	Oak Creek Energy	6/25/06	19565		Wind	Met Towers	BLM	12-May-08	29-day letter MOA for cost recovery Category VI		48537 Class L Military: Red
CA	Kern	Ridgecrest	Oak Creek Energy	1/11/06	6826		Wind	Met Towers	BLM	12-May-08	29-day letter MOA for cost recovery Category VI		47848 MUC: Unclassified Military: Yellow
CA	Kern	Ridgecrest	Oak Creek Energy	11/30/05	495	200	Wind	Met Towers	BLM	12-May-08	Met towers in place POD filed EA underway Awaiting transmission line intertie information.		44611 MUC: Limited, Unclassified Military: Yellow
CA	San Bernardino	Barstow	Pacific Wind Development LLC	8/17/05	6623		Wind	Met Towers	BLM	12-May-08	ROW testing issued Expires 3/09		47455 MUC: Moderate Military: Red
CA	San Bernardino	Barstow	Pacific Wind Development LLC	8/17/05	5258		Wind	Met Towers	BLM	12-May-08	ROW testing issued Expires 12/09		47453 MUC: Limited, Moderate Military: Red
CA	Lassen	Eagle Lake	Plumas-Sierra Rural Electric	10/1/04 2/1/06	10061		Wind	Met Towers	BLM	12-May-08	AUTHORIZED Lands in both Eagle Lake and Carcon City Fos. ELFO IS LEAD OFFICE		46727
CA	San Bernardino	Barstow	Power Parters SW (enXco)	10/10/06	10240		Wind	Met Towers	BLM	12-May-08	Revised application pending. Met locations/access Draft EA rec'd. Review & decision pending 5101/CRA set up.		48472 MUC: Moderate Military: Red
CA	Mendocino	Ukiah	PPM Energy Inc.	3/23/04 8/16/04	6864		Wind	Met Towers	BLM	12-May-08	AUTHORIZED		46085
													Adjacent to, but outside PBHS Critical Habitat; FTHL habitat outside of MA; includes 640 acres in
CA	Imperial	El Centro	Renewergy, LLC	4/1/06	3219		Wind	Met Towers	BLM	12-May-08	EA nearing completion pending Native American consultation		48004 Plaster City Open Area; MUC: Limited & Intensive Military: Red
CA	San Bernardino	Barstow	Renewergy, LLC	1/9/07	3920		Wind	Met Towers	BLM	12-May-08	Application complete Surveys and EA in progress Revision of access pending		48689 MUC: Limited Military: Red
CA	San Bernardino	Barstow	Rewable Energy	1/9/2007	3920		Wind	Met Towers	BLM	12-May-08	Revised application for met towers location & access 5101 set up EA required pending completion of biological & cultural		48489 MUC: Limited
CA	Riverside	Palm Springs	Sierra Renewables LLC	7/6/2007	5300		Wind	Met Towers	BLM	12-May-08	Sending letter and map		49487 DWMA
											Applicant was advised they need to prepare an EA. Small acreage may indicate speculation (may be dependent on success of		
CA	Imperial	El Centro	Superior Renewable	6/1/06	187		Wind	Met Towers	BLM	12-May-08	other applications in area)due to staff workload. EA pending.		48136 MUC: Limited Military: Red
CA	San Bernardino	Barstow	UPC Wind Management	3/25/04	6820		Wind	Met Towers	BLM	12-May-08	ROW testing issued Expires 12/09		47101 MUC: Intensive Military: Blue
CA	Lassen	Eagle Lake	William Butler	3/29/07	640		Wind	Met Towers	BLM	12-May-08	PENDING		48921
CA	Kern	Ridgecrest	Wind Power Partners	6/28/07	2080		Wind	Met Towers	BLM	12-May-08	29-day letter MOA for cost recovery Category VI		49394 MUC: Limited Military: Red
CA	Lassen	Alturas	Wind Power Partners LLC	4/23/07	3358		Wind	Met Towers	BLM	12-May-08	Pending		
CA	Imperial		BioRenewable Projects LLC	7/31/2006	609	20	solar	Photovoltaic	BLM		No monies or POD submitted yet. Cost recovery & POD ltr sent to applicant 7/31/08.		48273 MUC:Unclassified; Class III Tortoise habitat; Military: Red
CA	San Bernardino		Boulevard Associates, LLC	9/21/2007	9,600	1000	solar	Solar Trough	BLM		1st in time (as of 7/28/2008)		49431
CA	Fresno		Bull Frog Green Energy LLC	12/20/2007	8,999	300	solar	Photovoltaic	BLM		Appl. Received. POD needed. Outline sent.		49587 MUC: Limited, grazing allotment
CA	Imperial		Bull Frog Green Energy LLC	2/27/2008	2,600	250	solar	Photovoltaic	BLM		No monies or POD submitted yet Cost recovery & POD ltr sent 7/15/08.		50012 MUC: Unclassified; Cat. III Tortoise habitat; Military: Red
CA	Kern		Corum Solar Array LLC	5/5/2008	1,200	100	solar	Photo-voltaic	BLM		Application just filed; POD not filed yet; Interconnect Study near completion; near SCE powerlines and substation.		49960 Multiple Class U
CA	Shasta		Ewind Farm, Inc.	5/2/2008	12,640	800	solar	Technology Neutral	BLM		1st in time		49956
CA	Shasta		Ewind Farm, Inc.	5/26/2008	13,240	900	solar	Technology Neutral	BLM		1st in time		50116
CA	Shasta		Ewind Farm, Inc.	5/27/2008	21,440	1700	solar	Technology Neutral	BLM		1st in time		50117
CA			Iberdrola Renewables	4/1/2008	12,720	1000	solar	Parabolic Trough	BLM		1st in line; Iberdrola Renewables acquired Pacific Solar Investments (PSI)		49813
CA	Fresno		NextLight Renewable Power, LLC	3/24/2008	7,750	500	solar	Parabolic Trough	BLM		Majority of project in Barstow area – 1st in time for Needles portion		49811
CA	Shasta		NextLight Renewable Power, LLC	3/24/2008	12,960	500	solar	Parabolic Trough	BLM		1st in time for most of project area – Partial 2nd in line for some.		49812
CA			OptiSolar, Inc.	5/4/2007	5,120	585	solar	Photovoltaic	BLM		Application complete POD complete, EIS required. 5101 set up Consultant proposals pending		48941 MUC: Moderate, Adjacent to Harper ACEC (exclusion)
CA			OptiSolar, Inc.	10/9/2007	17,920	500	solar	Photovoltaic	BLM		Application complete. POD outline sent/pending revisions. EIS required cost recovery to be sent.		49361 MUC: Limited, Moderate Adjacent to Johnson Valley OHV Area
CA	Imperial		Power Partners Southwest LLC, c/o enXco	4/7/2008	540	300	solar	Parabolic Trough	BLM		partial rejection Sec. 22 overlaps geothermal apln. No monies or POD submitted yet. Cost recovery & POD ltr sent to applicant		50013 MUC: Unclassified; Cat. III Tortoise habitat; Military: Red
CA	Imperial		Sempra Generation	7/21/2008	11,000	500	solar	Photovoltaic	BLM		No monies or POD submitted yet. Cost recovery & POD ltr pending.		50113 MUC: Unclassified; Cat. III Tortoise habitat; Military: Red
CA	San Bernardino		Solel, Inc.	7/23/2007	14,080	600	solar	Solar Trough	BLM		1st in time (07/11/2008); combined CACA-49426 (amboy) into this file for one project vs. two.		49424
CA	Orange		AES SeaWest, LLC		2929		wind	Met Towers	BLM		Grant expires 8/08. Amendment filed to add MET's.filed. DWMA- Ord/Rodman, raptors, high tortoise concentration. Within		46881 MUC: Limited, DWMA, ACEC Military- Green
CA	San Diego		AES/SeaWest		7800		wind	Met Towers	BLM		Awaiting Renewable Energy Team review. Bakersfield FO jurisdiction.	None	MUC: Limited
CA			Airtricity, Inc.		14080		wind	MET towers	BLM		Appl. Complete. EA received. Under revisions- will post for public comment period. 5101 setup.		49255 MUC; limited, adj. to Juniper Flats ACEC & USFS Military-blue/green
CA	Modoc		Airtricity, Inc.		27995		wind	Area reserve	BLM		Pending	PENDING	
CA	Lake		Airtricity, Inc.		3018		wind	Met Towers	BLM		PENDING		
CA	Lassen		BP Wind Energy North America		5937		wind	Met Towers	BLM		Original ROW 45025 (Orion) - expired; PENDING		49765
CA	Lake		Clipper Windpower, Inc.		9000		wind	Met Towers	BLM		PENDING		
CA	Kern		Competitive Power Ventures LLC		5000		wind	Met Towers	BLM		29-day letter MOA for cost recovery Category VI		49547 MUC: Limited Military: Red
CA	San Bernardino		CPV Newberry Renewable Energy, LLC		3200		wind	Met Towers	BLM		Appl. Received. ACEC-Mojave.		49329 MUC: limited: Mojave Monkey Flower ACEC
CA	Inyo		Debenham Energy		1508		wind	Met Towers	BLM		Scoped, Cat VI fee determination		50032 MUCs Intensive, Moderate Military: Red in SUAs, Shoshone MOA
CA	San Bernardino		Desert Power, LLC (Globalwinds)		2500		wind	MET towers	BLM		Initial scope. Within ACEC- mojave Monkey Flower.		49201 MUC: Blue, Mojave river, mojave monkey flower?
CA	Shasta		eWindFarm, Inc.		6460		wind	Met Towers	BLM		Part is in Palm Springs field office boundary. Pending. Delay in part due to potential wilderness conflict in PSFO		48757 Military zone - can't tell CAMA
CA	San Bernardino		First Wind		10720		wind	Testing & monitoring	BLM		Incomplete with conflict - disputed by applicant. WO350 involvement deemed 1st in line. Rec'd addt'l info 1/16/07		47539 Incomplete application disputed by applicant. Conflict with two later applications.
CA			Greenraven Wind LLC		1-17,000?		wind	Met Towers	BLM		originally Eagle Lake		49707
CA			GreenWing Energy		9546		wind	Met Towers	BLM		Initial application incomplete. EA required. 5101 set up Biological & cultural surveys pending.		49052 MUC: Limited, Moderate Military: Red
CA	Colusa		GreenWing Energy		8157		wind	Met Towers	BLM		AUTHORIZED		49639
CA	Lassen		High Rock Holding LTD - now Ridgeline		10000		wind	Met Towers	BLM		Application received, cost recovery received; PENDING		48534
CA	Fresno		Horizon Wind Energy		1.1		wind	Met Towers	BLM		AUTHORIZED Lands in both Bakersfield and Hollister Fos. HFO IS LEAD OFFICE		48630
CA	Lassen		Horizon Wind Energy		2.5		wind	Met Towers	BLM		AUTHORIZED Applicant submitted an amendment on 5/2/07 Applicant submitted POD on 3/6/07		48927
CA	San Bernardino		Horizon Wind Energy		20811		wind	Met Towers	BLM		Scoped, Cat VI fee determination, 5101 account established		49204 MUCs Intensive, Ord-Rodman DWMA, Mojave Monkeyflower ACEC, Stoddard Valley OHV,
CA	Butte		Horizon Wind Energy		9831		wind	Met Towers	BLM		Scoped, Cat VI fee determination		50018 MUCs Limited, Desert Tortoise translocation sites, Military: Red
CA	Imperial		Imperial Wind		1960		wind	Met Towers	BLM		Pending NEPA (DNA) and Native American consultation, as required by SHPO. (ROW previously authorized to another party		48272 NECO; Class III Tortoise habitat; archaeological and Native American religious concerns MUC:

RETI Phase 1B Draft Report
Appendix A
BLM Land Lease Applications as of August 13, 2008

CA	Riverside		Infinity Wind Power		3840		wind	MET towers	BLM		Initial scope. Potential EA or CX. Pending Cost review.		50121	MUC: limited, Military-green/blue,
CA	Lassen		Invenergy LLC		4160		wind	Met Towers	BLM		AUTHORIZED		48110	
CA	Lassen		Invenergy LLC		93919		wind	Met Towers	BLM		AUTHORIZED		48696	
CA			Mesa		477	35	wind	Repower	BLM		Awaiting additional info.	11688-A		MUC: Limited
CA			Oak Creek Energy		6826		wind	Met Towers	BLM		29-day letter MOA for cost recovery Category VI		47848	MUC: Unclassified Military: Yellow
CA	San Diego		Oak Creek Energy		1800		wind	Met Towers	BLM		29-day letter MOA for cost recovery Category VI		48536	MUC: Unclassified On military base ? Military: White
CA			Oak Creek Energy		19565		wind	Met Towers	BLM		29-day letter MOA for cost recovery Category VI		48537	Class L Military: Red
CA	San Bernardino		Oak Creek Energy		7660		wind	Met Towers	BLM		Pending - Joint project with Las Vegas FO Rec'd $15k.		48666	Mojave National Preserve border; Mining claims; Scenic values Military: Red
CA	San Bernardino		Oak Creek Energy		25600		wind	Met Towers	BLM		Pending. Rec'd $15k		48667	Wilderness border; Military base border; CAMA Military: Green
CA	San Bernardino		Oak Creek Energy Systems, Inc.		28160		wind	6 Met Towers	BLM		5101 setup, draft EA received-massive revisions required. Applicant advised of DWMA policy.		48667	MUC: Moderate, Monkey Flower Military: Red
CA	San Diego		Pacific Wind (Iberdrola)		17000		wind	Met Towers	BLM		ROW issued 9/15/04. Renewed 3 yrs 1/08 with submission of POD. 7/08 submitted apln to install add'l MET towers. Cost		45248	Recreation; campgrounds; visual. Military: Green
CA	Lake		Pacific Wind Development LLC		6864		wind	?	BLM		Application received		49983	
CA	Kern		Power Parters SW (enXco)		77		wind	Met Towers	BLM		Held back for log completion		48767	Unclassified Military: Yellow
CA	Monterey		Power Parters SW (enXco)		1816		wind	Met Towers	BLM		2nd in line behind Oak Creek (CACA 48536)		49577	MUC: Unclassified Military: White
CA	Lake		PPM Energy Inc.		6864		wind	Met Towers	BLM		AUTHORIZED		46085	
														Adjacent to, but outside PBHS Critical Habitat; FTHL habitat outside of MA; includes 640 acres in
CA	Imperial		Renewergy, LLC		3219		wind	Met Towers	BLM		EA nearing completion pending Native American consultation		48004	Plaster City Open Area; MUC: Limited & Intensive Military: Red
CA	San Bernardino		Renewergy, LLC		7760		wind	Met Towers	BLM		Pending - cost recovery paperwork sent 8/25/06 sent back signed contracts		48287	Wilderness border; Military base border; CAMA Military: Green
CA	Shasta		Renewergy, LLC		2080		wind	Met Towers	BLM		Pending. Rec'd $19k.		48663	Military zone - can't tell CAMA
CA	San Bernardino		Renewergy, LLC		17320		wind	Met Towers	BLM		Pending. Rec'd $19k.		48664	Military zone - can't tell DWMA Desert Tortoise Critical Habitat
CA			Renewergy, LLC		14209		wind	Met Towers	BLM		29-day letter MOA for cost recovery Category VI		48948	MUC: Limited, Moderate Military: Red
CA	Kern		Sean Roberts		267		wind	Met Towers	BLM		Initiating EA for monitoring sites		46978	MUC: Limited Military: Green
CA			Sierra Renewables LLC		5300		wind	Met Towers	BLM		Sending letter and map		49487	DWMA
CA	Inyo		Sierra Renewables LLC		2554		wind	Met Towers	BLM		29-day letter MOA for cost recovery Category VI		49581	MUC: Limited Military: Red
											Applicant was advised they need to prepare an EA. Small acreage may indicate speculation (may be dependent on success of			
CA	Imperial		Superior Renewable		187		wind	Met Towers	BLM		other applications in area)due to staff workload. EA pending.		48136	MUC: Limited Military: Red
CA	Lassen		William Butler		640		wind	Met Towers	BLM		PENDING		48921	
CA	Kern		Wind Power Partners		2080		wind	Met Towers	BLM		29-day letter MOA for cost recovery Category VI		49394	MUC: Limited Military: Red
CA			Wind Power Partners LLC		3358		wind	Met Towers	BLM		Pending	PENDING		
NV	Clark	Las Vegas	Ausra NV I, LLC	3/12/2008	7040	180	Solar	Power tower	BLM	12-May-08	Meeting on 3/13/08 with Nye County and representatives for coordination with devleopers on renewable energy projects.			Desert Tortoise, Amargosa Valley; Water - Designated Hydrographic Basin; Military Zone -
NV	Clark	Las Vegas	Bright Source Energy Solar	7/25/2007	24000	800	Solar	Parabolic-Trough	BLM	12-May-08	POD received with application. POD is being revised to reflect reduces project ares. Will ask applicatn to relinquish Northern			This application is within a grazing allotment. It will have to be reduced in size. Inconsistent with
														This application competes with an earlier application submitted by Solar Investments for the same
NV	Clark	Las Vegas	Bright Source Energy Solar	4/17/2007	12000	800	Solar	Power tower	BLM	12-May-08	POD rcvd w/ application			location. Inconsistent with current Land Use Plan w/ VRM classes II & III
NV	Clark	Las Vegas	Bright Source Energy Solar	12/7/2007	2000	1000	Solar	Power tower	BLM	12-May-08	Draft copy received with application.			Proximity to tribal lands, may be Native American issues. Inconsistent with current Land Use Plan
NV	Lander	Battle Mountain	Mud Lake Solar LLC	11/19/2007	3844	32	Solar	Unknown	BLM	12-May-08	Mtg. on 3/13/08 w/ Nye Co. & reps for coord. w/ developers. Anticipate withdrawal of application			Tonopah Airport expansion, Ralston Grazing Allotment, Paleo-Indian sites, WWII training area;
NV	Clark	Las Vegas	Nevada Power Company	8/14/2007	1775	300	Solar	Parabolic-Trough	BLM	12-May-08	Draft POD received w/ application.			Desert tortoise habitat. Inconsistent with current Land Use Plan w/VRM classes II & III
NV	Clark	Las Vegas	Opti-solar Inc.	10/22/2007	5500	400	Solar	Photovoltaic	BLM	12-May-08	Draft POD received w/ application.			Native American issues, resource surveys have not been started. Inconsistent with current Land
														Sight occupied by Bright Source & a grazing allotment. Resource surveys have not been started.
NV	Clark	Las Vegas	Pacific Solar Investments Inc.	12/7/2007	11000	1000	Solar	Concentrating solar power	BLM	12-May-08	Draft POD received. Application to be rejected unless applicant will to move.			inconsistent w/ current Land Use Plan w/VRM classes II & III
														MUC: Ash Meadows, Designated Water Basin, View Shed, Big Dune ACEC area: Desert Tortoise,
NV	Clark	Las Vegas	Pacific Solar Investments Inc.	12/7/2007	7500	500	Solar	parabolic-trough	BLM	12-May-08	Rec'd POD; requested rev. legals 1/22/08; mtg. on 3/13/08 w/ Nye Co. & reps for coord. w/ developers			airport expansion. Amargosa Toad - petition to list submitted 2/26/05 to USFWS Military:
														MUC: Ash Meadows, Designated Water Basin, View Shed, Big Dune ACEC area: Desert Tortoise,
NV	Clark	Las Vegas	Pacific Solar Investments Inc.	12/7/2007	7700	500	Solar	Parabolic-Trough	BLM	12-May-08	Rec'd POD; requested rev. legals 1/22/08; mtg. on 3/13/08 w/ Nye Co. & reps for coord. w/ developers			airport expansion. Amargosa Toad - petition to list submitted 2/26/05 to USFWS Military:
NV	Clark	Las Vegas	Power Partners Southwest LLC	12/7/2007	11520	250	Solar	Concentrating solar power	BLM	12-May-08	Draft POD submitted with applications.			Resource surveys have not been started. Inconsistent w/ current Land Use Plan w/VRM classes II
NV	Clark	Las Vegas	Solar Investments LLC	2/14/2007	4480	500	Solar	Concentrating solar power	BLM	12-May-08	Draft POD received w/ application. No other POD requested at this time.			This site to be rejected, it competes directly with an existing wind energy site.
NV	Clark	Las Vegas	Solar Investments LLC	2/14/2007	13440	1400	Solar	Concentrating solar power	BLM	12-May-08	Draft POD received w/ application. No other POD requested at this time. Working on fatal flaws associated with location.			May have wildlife issues associated with Big Dune. Inconsistent with current Land Use Plan
														This site has some conflicts with the old Spanish Trail. No resource surveys initiated yet. Working
NV	Clark	Las Vegas	Solar Investments LLC	2/14/2007	30720	3400	Solar	Concentrating solar power	BLM	12-May-08	Draft POD received w/ application.			on identifying fatal flaws. Inconsistent with current Land Use Plan w/VRM classes II & III
NV	Clark	Las Vegas	Solar Investments LLC	3/5/2006	12800	3400	Solar	Concentrating solar power	BLM	12-May-08	Draft POD received w/ application.			No resource surveys initiated yet. Working on identifying fatal flaws. Inconsistent with current Lan
NV	Clark	Las Vegas	Solar Investments LLC	3/5/2007	22400	3400	Solar	Concentrating solar power	BLM	12-May-08	Draft POD received w/ application.			No resource surveys initiated yet. Working on identifying fatal flaws. Inconsistent with current Lan
NV	Clark	Las Vegas	Solar Investments LLC	1/18/2007	5800	300	Solar	Parabolic-Trough	BLM	12-May-08	POD rcvd w/ application			Ivanpah Airport. Inconsistent w/ current Land Use Plan w/VRM classes II & III
NV	Clark	Las Vegas	Solar Investments LLC	1/18/2007	19840	1200	Solar	Parabolic-Trough	BLM	12-May-08	POD rcvd w/ application			Ivanpah Airport. Inconsistent w/ current Land Use Plan w/VRM classes II & III
NV	Lander	Battle Mountain	Solar Millennium	11/1/2007	4800	500	Solar	Parabolic-Trough	BLM	12-May-08	Received revised legals, POD; Meeting on 3/13/08 w/ Nye Co. & reps for coord. w/ developers.			MUC: Designated water basin, View Shed, Airport expansion; Military: Potential
														MUC: Ash Meadows, Designated Water Basin, View Shed, Big Dune ACEC area: Desert Tortoise,
NV	Lander	Battle Mountain	Solar Millennium	11/2/2007	2457	300	Solar	Parabolic-Trough	BLM	12-May-08	Rec'd revised legals, POD; mtg. on 3/13/08 w/ Nye Co. & reps for coord. w/ developers.			airport expansion. Amargosa Toad - petition to list submitted 2/26/05 to USFWS Military:
											Rec'd revised legals, POD, Interconnect notification from Valley Electric, mtg. on 3/13/08 w/ Nye Co. & reps for coord. w/			MUC: Ash Meadows, Designated Water Basin, View Shed, Big Dune ACEC area: Desert Tortoise,
NV	Clark	Las Vegas	Solar Millennium	11/1/2004	1000	170	Solar	Parabolic-Trough	BLM	12-May-08	developers.			airport expansion. Amargosa Toad - petition to list submitted 2/26/05 to USFWS Military:
											Rec'd revised legals, POD, Interconnect notification from Valley Electric, mtg. on 3/13/08 w/ Nye Co. & reps for coord. w/			MUC: Ash Meadows, Designated Water Basin, View Shed, Big Dune ACEC area: Desert Tortoise,
NV	Clark	Las Vegas	Solar Millennium	11/20/2007	3597	500	Solar	Parabolic-Trough	BLM	12-May-08	developers.			airport expansion. Amargosa Toad - petition to list submitted 2/26/05 to USFWS Military:
											Rec'd revised legals, POD, Interconnect notification from Valley Electric, mtg. on 3/13/08 w/ Nye Co. & reps for coord. w/			MUC: Ash Meadows, Designated Water Basin, View Shed, Big Dune ACEC area: Desert Tortoise,
NV	Clark	Las Vegas	Solar Millennium	11/20/2007	3597	500	Solar	Parabolic-Trough	BLM	12-May-08	developers.			airport expansion. Amargosa Toad - petition to list submitted 2/26/05 to USFWS Military:
NV	Lander	Battle Mountain	Tonopah Solar Energy, LLC	3/6/2007	1720	100	Solar	Power tower	BLM	12-May-08	Mtg. on 3/13/08 w/ Nye Co. & reps for coord. w/ developers.			Tonopah Airport expansion, Ralston Grazing Allotment, Paleo-Indian sites, WWII training area;
NV	Lander	Battle Mountain	Tonopah Solar Energy, LLC c/o Solar Reserve	3/6/2007	1720	100	Solar	Power Tower	BLM	12-May-08	Mtg. on 3/13/08 w/ Nye Co. & reps for coord. w/ developers. Anticipate withdrawal of application			Tonopah Airport expansion, Ralston Grazing Allotment, Paleo-Indian sites, WWII training area;
	San Bernardino		GreenWing Energy		8553		wind	Met Towers	BLM		Initial application incomplete. EA required. 5101 set up Biological & cultural surveys pending.		49053	MUC: Limited, Moderate Military: Blue

Appendix B. Utility Power Purchase Agreements

Utility	Internal Tracking Number	"Active" Contract	Solicitation	Technology	Vintage/Type	Facility Name	Developer Name	Minimum Size (MW)	Maximum Size (MW)	Minimum Expected Deliveries (GWh/yr)	Maximum Expected Deliveries (GWh/yr)	Contract Term (yrs)	Ops Status	Cancel?	Expect. 1st Deliv	Curr Expect 1st Deliv	1st deliv	Post-Operation Contract Expiration?	Actual or Expected Delays in Achieving Operations?	Price	Above Applicable MPR	Location	Size Increase from Repower/ Size Upgrade (MW)	Increased Deliveries from Repower/ Size Upgrade (GWh/yr)
PG&E	PGE010	active	2004 RPS	wind	new	FPL Montezuma Wind	FPL Energy	32.4	32.4	redacted	redacted	25	not online	no	2006-08	12/1/2009	not applicable	no	yes	below MPR	no	Solano	not applicable	not applicable
PG&E	PGE012	active	2004 RPS	wind	new	Pacific Renewable Energy Generation	Pacific Renewable Energy Generation	82.5	82.5	redacted	redacted	20	not online	no	2006-08	7/2/1905	not applicable	no	yes	below MPR	no	Lompac/Midway	not applicable	not applicable
PG&E	PGE013	active	2004 RPS	wind	new	Shiloh 1 Wind Project	PPM	75	75	225	225	15	online	no	2005-06	6/1/2006	38808	no	no	below MPR	no	Solano	not applicable	not applicable
PG&E	PGE016	active	2004 RPS	geothermal	new	Military Pass-Newberry Volcano	Vulcan Power	120	120	840	840	20	not online	no	39722	after 2010	not applicable	no	yes	above 2004 MPR	yes	30 miles southeast of Bend	not applicable	not applicable
PG&E	PGE018	active	2005 RPS	biogas	new	Liberty	Liberty V Biofuels	5	10	33	35	15	not online	no	redacted	after 2010	not applicable	no	yes	below 2005 MPR	no	NP15, Lost Hills	not applicable	not applicable
PG&E	PGE019	active	2005 RPS	biomass	new	HFI	HFI Bio Power Project LLC	20	40	140	280	10	not online	no	39234	after 2010	not applicable	no	yes	below 2005 MPR	no	NP15, La Pine Oregon	not applicable	not applicable
PG&E	PGE020	active	2005 RPS	geothermal	new	Northwest Geothermal	Davenport Power	30	120	210	840	20	not online	no	40179	1/1/2010	not applicable	no	no	below 2005 MPR	no	Newberry Volcano, Oregon	not applicable	not applicable
PG&E	PGE021	active	2005 RPS	geothermal	new	IAE Truckhaven	IAE	49	49	370	370	20	not online	no	40360	7/1/2010	not applicable	no	no	below 2005 MPR	no	Truckhaven, Imperial	not applicable	not applicable
PG&E	PGE022	active	2006 bilateral	small hydro	new	Buckeye	Tunnel Hill Hydro	0.4	0.4	redacted	redacted	10	not online	no	39234	6/30/1905	not applicable	no	yes	90% of then-current MPR	no	El Dorado County	not applicable	not applicable
PG&E	PGE023	active	2006 bilateral	small hydro	new	Tunnel Hill	Tunnel Hill Hydro	0.6	0.6	redacted	redacted	10	not online	no	39234	7/3/1905	not applicable	no	yes	90% of then-current MPR	no	El Dorado County	not applicable	not applicable
PG&E	PGE024	active	2006 bilateral	biogas	new	Eden Vale	Eden Vale Dairy	0.15	0.15	redacted	redacted	10	not online	no	2007	7/1/1905	not applicable	no	yes	90% of then-current MPR	no	Kings County	not applicable	not applicable
PG&E	PGE026	active	2007 bilateral	biogas	new	BioEnergy LLC	BioEnergy LLC	2	44.38	15	389	10	not online	no	39203	5/1/2010	not applicable	no	yes	redacted	unknown	Fresno	not applicable	not applicable
PG&E	PGE027	active	2007 bilateral	biogas	new	Microgy	Microgy	2	44.38	15	389	10	not online	no	39814	1/1/2008	not applicable	no	no	redacted	unknown	existing in Texas, new in Fresno county	not applicable	not applicable
PG&E	PGE029	active	2006 bilateral	biomass	new	Lincoln Facility	Sierra Pacific Industries	6.7	6.7	redacted	redacted	5	online	no	redacted	redacted	redacted	no	no	SO settlement	no	Lincoln	not applicable	not applicable
PG&E	PGE031	active	2006 RPS	solar photovoltaic	new	Green Volts	Green Volts Inc.	2	2	4.6	4.6	20	not online	no	39692	9/1/2008	not applicable	no	no	above 2006 MPR	yes	Byron, Calif.	not applicable	not applicable
PG&E	PGE032	active	2006 RPS	solar photovoltaic	new	CalRenew	CalRENEW-1 LLC	5	5	9	9	20	not online	no	39904	4/1/2009	not applicable	no	no	above 2006 MPR	yes	Mendota, Calif.	not applicable	not applicable
PG&E	PGE033	active	2006 RPS	wind	new	Klondike III	PPM	85	85	265	265	15	online	no	39447	not applicable	39417	no	no	below 2006 MPR	no	Sherman County, Oregon	not applicable	not applicable
PG&E	PGE034	active	2005 RPS	solar thermal	new	SOLEL MSP-1	Solel	553.5	553.5	1388	1388	25	not online	no	40544	1/1/2011	not applicable	no	no	above 2005 MPR	yes	Needles, Stedman or Arrowhead Junction	not applicable	not applicable
PG&E	PGE035	active	2007 bilateral	wind	new	Shiloh II	EnXco	150	150	509	509	20	not online	no	39783	12/1/2008	not applicable	no	no	above 2006 MPR	yes	Solano	not applicable	not applicable
PG&E	PGE036	active	2007 bilateral	solar thermal	new	Carrizo Energy LLC	Ausra	177	177	388	388	20	not online	no	40421	8/31/2010	not applicable	no	no	above 2007 MPR	yes	Carrizo Plain, San Luis Obispo County	not applicable	not applicable
PG&E	PGE037	active	2006 RPS	ocean	new	Finavera	Finavera Renewables	2	2	4	4	15	not online	no	41244	12/1/2012	not applicable	no	no	above 2006 MPR	yes	Humbolt County	not applicable	not applicable
PG&E	PGE038	active	2007 bilateral	wind	new	White Creek	PUD #1, Klickitat	50	50	147	147	3.25	online	no	39448	not applicable	39448	no	no	below 2007 MPR	no	Klickitat, WA	not applicable	not applicable

PG&E	PGE040	active	2008 bilateral	solar thermal	new	PPA1	BrightSource	100	100	246	246	25	not online	no	40908	12/31/2011	not applicable	no	no	above 2007 MPR	yes	Ivanpah Dry Lake	not applicable	not applicable
PG&E	PGE041	active	2008 bilateral	solar thermal	new	PPA2	BrightSource	200	200	492	492	25	not online	no	41639	12/31/2013	not applicable	no	no	above 2007 MPR	yes	Ivanpah Dry Lake	not applicable	not applicable
PG&E	PGE042	active	2008 bilateral	solar thermal	new	PPA3	BrightSource	200	200	492	492	25	not online	no	42004	12/31/2014	not applicable	no	no	below 2007 MPR	no	Broadwell Dry Lake	not applicable	not applicable
PG&E	PGE043	active	2008 bilateral	solar thermal	new	PPA4	BrightSource	0	200	0	492	25	not online	no	42004	12/31/2014	not applicable	no	no	below 2007 MPR	no	Broadwell Dry Lake	not applicable	not applicable
PG&E	PGE044	active	2008 bilateral	solar thermal	new	PPA5	BrightSource	0	200	0	492	25	not online	no	42369	12/31/2015	not applicable	no	no	below 2007 MPR	no	Broadwell Dry Lake	not applicable	not applicable
SCE	SCE002	active	2002 interim	biogas	new	El Sobrante	WM Energy Solutions	3.77	3.77	30	30	10	online	no	2003	not applicable	38018	no	yes	within acceptable range of $53.7/MWh	no	El Sobrante	not applicable	not applicable
SCE	SCE003	active	2002 interim	biogas	new	Simi Valley	WM Energy Solutions	2.49	2.49	20	20	10	online	no	2003	not applicable	38078	no	yes	within acceptable range of $53.7/MWh	no	Simi Valley	not applicable	not applicable
SCE	SCE009	active	2003 interim	biomass	new	Liberty 1 Biofuels	McCarthy Family Farms	5	15	37	110	15	not online	no	39417	7/3/1905	not applicable	no	yes	below MPR	no	Imperial Valley (IID territory)	not applicable	not applicable
SCE	SCE010	active	2003 interim	biomass	new	Sierra Biomass	Silvan Power	7.5	22.5	56	168	20	not online	no	39417	7/4/1905	not applicable	no	yes	below MPR	no	Western Sierra (PG&E territory)	not applicable	not applicable
SCE	SCE011	active	2003 interim	geothermal	new	Green Borders Geothermal	Vulcan Power	30	120	231	925	20	not online	no	39508	7/5/1905	not applicable	no	yes	below MPR	no	Western Nevada	not applicable	not applicable
SCE	SCE012	active	2003 interim	wind	new	Mountain View IV	AES SeaWest	37	50	118	159	20	not online	no	39052	7/2/1905	not applicable	no	yes	below MPR	no	San Gorgonio	not applicable	not applicable
SCE	SCE013	active	2003 interim	wind	new	Brodie Wind Project	Coram Energy	12	100	47	394	20	not online	no	39052	7/3/1905	not applicable	no	yes	below MPR	no	Tehachapi	not applicable	not applicable
SCE	SCE014	active	2003 interim	wind	new	Windstar 1, Aero Energy	Western Wind	50	120	154	370	20	not online	no	39052	7/2/1905	not applicable	no	yes	below MPR	no	Tehachapi	not applicable	not applicable
SCE	SCE015	active	2003 interim	solar thermal	new	Solar One	Stirling Energy Systems	500	850	1047	1780	20	not online	no	2009-12	7/4/1905	not applicable	no	yes	below MPR	no	San Bernardino County	not applicable	not applicable
SCE	SCE016	active	2003 interim	wind	new	Dillon Wind, LLC	PPM	45	45	132	132	20	online	no	39417	3/1/2008	39508	no	yes	below $53.7/MWh	no	San Gorgonio	not applicable	not applicable
SCE	SCE018	active	2005 RPS	biogas	new	MM Tajiguas Energy LLC	MM Tajiguas Energy LLC	0	1.5	0	9.9	20	online	no	redacted	redacted	not applicable	no	no	below 2005 MPR	no	Goleta	not applicable	not applicable
SCE	SCE025	active	2005 RPS	wind	new	Alta Windpower	Allco and Oak Creek	1500	1550	4730	4888	20	not online	no	2010	7/2/1905	not applicable	no	no	redacted	unknown	Tehachapi	not applicable	not applicable
SCE	SCE026	active	2006 RPS	geothermal	new	ORNI #18	Ormat	50	100	416	832	20	not online	no	40148	12/1/2009	not applicable	no	no	below 2006 MPR	no	North Brawley	not applicable	not applicable
SCE	SCE027	active	2006 RPS	wind	new	Baja Wind	Sempra and Cannon Wind	200	250	578.2	722.7	20	not online	no	40298	4/30/2010	not applicable	no	no	above 2006 MPR	yes	La Rumorosa, Mexico	not applicable	not applicable
SCE	SCE028	active	2006 RPS	wind	new	Granite Wind	RES Americas and others	42	81	95.7	184.5	20	not online	no	40178	12/31/2009	not applicable	no	no	below 2006 MPR	no	San Bernadino	not applicable	not applicable
SCE	SCE029	active	2006 RPS	solar photovoltaic	new	California Sunrise I	Alternative Energy Development LLC	0.99	0.99	2.3	2.3	20	not online	no	39813	12/31/2008	not applicable	no	no	above 2006 MPR	yes	Kern County	not applicable	not applicable
SCE	SCE031	active	2007 RPS	geothermal	new	ORNI #21	Ormat	30	100	250	832	20	not online	no	41061	6/1/2012	not applicable	no	no	below 2007 MPR	no	Imperial Valley	not applicable	not applicable
SCE	SCE032	active	2007 RPS	wind	new	Dagget Ridge	AES	79.5	85.5	197	212	20	not online	no	40087	10/1/2009	not applicable	no	no	above 2007 MPR	yes	San Bernadino County	not applicable	not applicable
SCE	SCE033	active	2007 RPS	solar photovoltaic	new	FSE Blythe 1	First Solar	7.5	21	17.7	49.7	20	not online	no	40087	10/1/2009	not applicable	no	no	below 2007 MPR	no	Blythe	not applicable	not applicable
SCE	SCE032	active	2008 bilateral	biogas	new	Flex LA	FlexEnergy	2	2	12.26	12.26	20	not online	no	41183	10/1/2012	not applicable	no	no	2006 MPR	no	Sun Valley	not applicable	not applicable

SCE	SCE033	active	2008 bilateral	biogas	new	Flex Riverside	FlexEnergy	2	2	12.26	12.26	20	not online	no	41183	10/1/2012	not applicable	no	no	2006 MPR	no	Beaumont	not applicable	not applicable
SDG&E	SDGE1	active	2002 interim	wind	new	Mountain View III	PPM	22.8	22.8	redacted	redacted	15	online	no	2003	not applicable	37956	no	no	presumed below $53.7/MWh	no	Palm Springs	not applicable	not applicable
SDG&E	SDGE4	active	2002 interim	wind	new	Oasis Power Systems	EnXco	60	60	redacted	redacted	15	online	no	2003	not applicable	38322	no	yes	$49.2/MWh	no	Tehachapi	not applicable	not applicable
SDG&E	SDGE6	active	2002 interim	biogas	new	Sycamore	Gas Recovery Systems	2.5	2.5	redacted	redacted	10	online	no	2003	not applicable	38018	no	yes	presumed below $53.7/MWh	no	Santee	not applicable	not applicable
SDG&E	SDGE14	active	2004 bilateral	small hydro	new	Rancho Penasquitos	San Diego County Water Authority	4.5	4.5	20	20	10	online	no	39052	not applicable	39083	no	no	$53.7/MWh	no	San Diego County	not applicable	not applicable
SDG&E	SDGE15	active	2004 bilateral	wind	new	Kumeyaay Wind	Superior	50	50	redacted	redacted	20	online	no	38687	not applicable	38687	no	no	$51.44/MWh avg.	no	San Diego County	not applicable	not applicable
SDG&E	SDGE16	active	2004 RPS	solar thermal	new	SES Solar Two	Stirling Energy Systems	300	900	648	1944	20	not online	no	2009-14	2010-16	not applicable	no	yes	below MPR	no	Imperial Valley	not applicable	not applicable
SDG&E	SDGE17	active	2004 RPS	biogas	new	Algonquin, MM Prima Deshecha Energy	Cambrian Energy Development	10	10	redacted	redacted	15	online	no	2007	10/1/2007	39356	no	no	below MPR	no	San Juan, Capistrano	not applicable	not applicable
SDG&E	SDGE18	active	2004 RPS	biogas	new	Covanta Otay 3	Covanta Power Pacific	3.75	3.75	redacted	redacted	10	online	no	2005-08	unknown	39142	no	no	below MPR	no	San Diego County, Chula Vista	not applicable	not applicable
SDG&E	SDGE19	active	2004 RPS	wind	new	Pacific Wind LLC	EnXco	205.5	205.5	603	603	20	not online	no	39417	7/3/1905	not applicable	no	yes	below MPR	no	Antelope Valley/Kern County	not applicable	not applicable
SDG&E	SDGE21	active	2005 RPS	biomass	new	Bull Moose	Bull Moose	25	25	168	168	20	not online	no	39813	12/31/2008	not applicable	no	no	below 2007 MPR	no	San Diego County	not applicable	not applicable
SDG&E	SDGE22	active	2005 RPS	geotherm al	new	Esmeralda San Felipe	Esmeralda Energy	20	20	166	166	15	not online	no	40513	12/1/2011	not applicable	no	yes	below 2005 MPR	no	Imperial Valley	not applicable	not applicable
SDG&E	SDGE23	active	2005 RPS	solar thermal	new	Mount Signal Solar	Bethel/MMR Power Solutions	49.4	49.4	304	304	20	not online	no	39600	12/31/2009	not applicable	no	yes	redacted	unknown	Imperial Valley	not applicable	not applicable
SDG&E	SDGE24	active	2005 RPS	solar thermal	new	Bethel Solar 2	Bethel/MMR Power Solutions	49.4	49.4	168	168	20	not online	no	39783	12/1/2008	not applicable	no	no	below 2005 MPR	no	Imperial Valley	not applicable	not applicable
SDG&E	SDGE26	active	2006 All Source	biomass	new	Vista	Envirepel Energy Inc.	1.5	1.5	11.826	11.826	2	not online	no	39508	unknown	not applicable	no	yes	redacted	unknown	Vista	not applicable	not applicable
SDG&E	SDGE27	active	2006 RPS	biomass	new	Los Coyotes	Envirepel Energy Inc.	5	5	41.61	41.61	15	not online	no	39692	9/1/2008	not applicable	no	no	redacted	unknown	Los Coyotes	not applicable	not applicable
SDG&E	SDGE28	active	2006 RPS	biomass	new	Ramona	Envirepel Energy Inc.	5	5	41.61	41.61	15	not online	no	39965	6/1/2009	not applicable	no	no	redacted	unknown	Ramona	not applicable	not applicable
SDG&E	SDGE29	active	2008 bilateral	geotherm al	new	Esmeralda Truckhaven	Esmeralda Energy	40	40	319.44	319.44	20	not online	no	40543	12/31/2010	not applicable	no	no	redacted	unknown	Imperial Valley	not applicable	not applicable
PG&E	PGE005	active	2004 bilateral	wind	repower	Diablo Winds	FPL Energy	18	18	65	65	11.5	online	no	mid-2005	not applicable	38473	no	no	$43/MWh; after 3 yrs, escalates with CPI capped at 2%/yr	no	Altamont	0.28	unknown
PG&E	PGE011	active	2004 RPS	wind	repower	Buena Vista Energy	Buena Vista	38	38	95	95	10	online	no	2006-08	12/1/2006	39083	no	no	below MPR/SO4	no	Altamont	unknown	unknown
SCE	SCE005	active	2005 bilateral	wind	repower	CTV Power	CTV Power	14	14	41.185	41.185	30	online	no	redacted	unknown	2004	no	no	SRAC for incremental energy and capacity	no	Tehachapi	0	4.7
SCE	SCE006	active	2005 bilateral	wind	repower	Boxcar II	Windland Inc.	8	8	20	20	30	online	no	redacted	unknown	2004	no	no	SRAC for incremental energy and capacity	no	Tehachapi	0	0
SCE	SCE007	active	2005 bilateral	wind	repower	Karen Windfarm	Energy Development and Construction Corp.	11.66	11.66	35.6	35.6	30	online	no	redacted	unknown	2003	no	no	SRAC for incremental energy and capacity	no	San Gorgonio	0	13.6

SCE	SCE008	active	2005 bilateral	wind	repower	Coram Energy	Coram Energy Group	3	3	11.162	11.162	30	online	no	redacted	unknown	2005	no	no	SRAC for incremental energy and capacity	no	Tehachapi	0	6.41
SCE	SCE019	active	2005 RPS	wind	repower	Caithness 251 I	Caithness	15	18.265	redacted	44	20	not online	no	redacted	7/1/1905	not applicable	no	no	below 2005 MPR	no	Tehachapi	0	0
SCE	SCE020	active	2005 RPS	wind	repower	Caithness 251 II	Caithness	5.8	15.8	redacted	40	20	not online	no	redacted	7/3/1905	not applicable	no	no	below 2005 MPR	no	Tehachapi	5.8	14.683544
SCE	SCE021	active	2005 RPS	wind	repower	Ridgetop Energy I	Caithness	6	17.66	redacted	40	20	online	no	redacted	redacted	not applicable	no	no	below 2005 MPR	no	Mohave	0	0
SCE	SCE022	active	2005 RPS	wind	repower	Ridgetop Energy II	Caithness	5.03	17.03	redacted	42	20	not online	no	redacted	7/3/1905	not applicable	no	no	below 2005 MPR	no	Mohave	5.03	12.405167
SCE	SCE030	active	2006 RPS	biogas	repower	Palos Verdes Gas to Energy Facility	County Sanitation Districts of LA County	1.6	1.6	12.6	12.6	10	not online	no	40178	12/31/2009	not applicable	no	no	above 2006 MPR	yes	Rolling Hills	0	0
PG&E	PGE014	active	2005 bilateral	biomass	re-start	Global Common's Chowchilla	Global Ampersand	9	9	65	72	15	not online	no	39447	6/30/1905	not applicable	no	yes	above 2005 MPR	yes	Panoche, Near Fresno	not applicable	not applicable
PG&E	PGE015	active	2005 bilateral	biomass	re-start	Global Common's El Nido	Global Ampersand	9	9	65	72	15	not online	no	39355	6/30/1905	not applicable	no	yes	above 2005 MPR	yes	Panoche, Near Fresno	not applicable	not applicable
PG&E	PGE017	active	2005 RPS	geothermal	re-start	Bottle Rock	US Renewables Group	10	55	119	385	10 to 15	online	no	redacted	10/1/2007	39356	no	yes	below 2005 MPR	no	NP15, Geysers	not applicable	not applicable
SCE	SCE017	active	2005 RPS	biomass	re-start	Imperial Valley Resource Recovery	Imperial Valley Resource Recovery LLC	16.4	16.4	123.5	132	10	not online	no	39539	6/1/2008	not applicable	no	yes	below 2005 MPR	no	Imperial Valley	not applicable	not applicable
SCE	SCE023	active	2007 bilateral	biomass	re-start	Mesquite Lake Resource Recovery Facility	Chateau Energy Inc.	15	15	105	105	15	not online	no	2008	6/30/1905	not applicable	no	no	above 2006 MPR	yes	Imperial County	not applicable	not applicable

NOTE: SECOND TABLE FOR EACH RECORD BEGINS HERE. IDENTIFY EACH RECORD BY ITS UTILITY AND UTILITY TRACKING NUMBER

Utility	Internal Tracking Number	Deliveries of Combined Contracts (GWh/yr)	Contracts Included in Combined Deliveries	TOTAL CEC-Derived Minimum Estimated Deliveries (GWh/yr)	TOTAL CEC-Derived Maximum Estimated Deliveries (GWh/yr)	NEW/RESTART/ADDITIONAL REPOWER CEC-Derived Minimum Estimated Deliveries (GWh/yr)	NEW/RESTART/ADDITIONAL REPOWER CEC-Derived Maximum Estimated Deliveries (GWh/yr)	Advice Letter	Advice Letter Filing Date	CPUC Resolution Number	Resolution Date	Other Advice Letters and Resolutions	Other Sources of Information	Transmission Expansion Needed?	CEC RPS ID#	Notes
PG&E	PGE010	490 (472 incremental)	PGE010, PGE011, PGE012	107	107	107	107	2655-E	38468	E-3946	38554	In 2007, 2992-E (PENDING, but later deferred due to delayed permitting) extended contract term, increased pricing, made other changes	TURN database	unclear	60543C	contract revised in 2007 increased term, raised price
PG&E	PGE012	490 (472 incremental)	PGE010, PGE011, PGE012	256	256	256	256	2655-E	38468	E-3946	38554		TURN database	yes	Unknown	
PG&E	PGE013	715	PGE010, PGE011, PGE012, PGE013	225	225	225	225	2678-E	38524	E-3949	38589		TURN database; press releases upon operation.	no	60488A	

PG&E	PGE016			840	840	840	840	2797-E	38779	E-4022	39051	Original AL withdrawn and resubmitted as 2860-E (2860-EA, later) to update SEP worksheet on July 14, 2006		no	60477D	2 phases; second 60 MW phase completed in 2009								
PG&E	PGE018	735	PGE017, PGE018, PGE019	33	35	33	25	2827-E	38852	E-4021	38995		2006 compliance report	unknown	Unknown									
PG&E	PGE019	735	PGE017, PGE018, PGE019	140	280	140	280	2827-E	38852	E-4021	38995		2006 compliance report	unknown	Unknown									
PG&E	PGE020			210	840	210	840	2863-E	38923	E-4041	39065	Supplemental 2863-EA filed on November 30, 2006 to revise non-modifiable terms		unknown	Unknown									
PG&E	PGE021			370	370	370	370	2863-E	38923	E-4041	39065			yes, Sunrise/Powerlink/ Greenpath	60490D									
PG&E	PGE022			1.4	1.4	1.4	1.4	U 39E	38993	D. 07-03-042	39156			unknown, but presumably none	60567C									
PG&E	PGE023			2.1	2.1	2.1	2.1	U 39E	38993	D. 07-03-042	39156			unknown, but presumably none	60568C									
PG&E	PGE024			1.3	1.3	1.3	1.3	U 39E	38993	D. 07-03-042	39156			no	60629C									
PG&E	PGE026			15	389	389	389	2979-E	39115	E-4076	39226			no	Unknown	Little information provided in Advice Letter								
PG&E	PGE027			15	389	11	292	2996-E	39141	E-4083	39317	Supplemental 2996-E-A filed on July 12, 2007 to amend conditions related to CEC certification. 3132E requests that 1/4 of deliveries come from an existing Texas facility, beginning in January 2008		no	Unknown	Little information provided in Advice Letter									

PG&E	PGE029			46.98576	46.98576	47	47	2987-E	39128	pending	pending			unlikely	60088E	Expansion of size and incremental deliveries from QF; MW included here represents only expanded capacity								
PG&E	PGE031			4.6	4.6	4.6	4.6	3074-E	39260	E-4132	39436			unlikely	60541D									
PG&E	PGE032			9	9	9	9	3074-E	39260	E-4132	39436	3074-E-A would revise project description and location.		unlikely	60475D?									
PG&E	PGE033			265	265	265	265	3090-E	39283	E-4128	39402			already completed	60602C	Separate firming and shaping agreement with PPM; electricity delivered to COB								
PG&E	PGE034			1388	1388	1388	1388	3092-E	39288	E-4138	39436			unknown	Unknown									
PG&E	PGE035			509	509	509	509	3143-E	39384	E-4161	39548			all scheduled for completion by end of 2008	60639C									
PG&E	PGE036			388	388	388	388	3150-E	39391	pending	pending			unknown	60603D?									
PG&E	PGE037			4	4	4	4	3181-E	39434	pending	pending			unknown	Unknown									
PG&E	PGE038			147	147	147	147	3183-E	39437	pending	pending			no	Unknown									
PG&E	PGE040			246	246	246	246	3243-E	39539	pending	pending			unkown	Unknown									
PG&E	PGE041			492	492	492	492	3243-E	39539	pending	pending			unkown	Unknown									
PG&E	PGE042			492	492	492	492	3243-E	39539	pending	pending			unkown	Unknown									
PG&E	PGE043			0	492	0	492	3243-E	39539	pending	pending			unkown	Unknown									
PG&E	PGE044			0	492	0	492	3243-E	39539	pending	pending			unkown	Unknown									
SCE	SCE002	nearly 2000	SCE001, SCE002, SCE003, SCE004, QF contract and TrueSolar	30	30	30	30	1676-E	37614	E-3809	37651		TURN database; Aug 2006 RPS compliance filing	unknown, but presumably none	60292E									
SCE	SCE003	nearly 2000	SCE001, SCE002, SCE003, SCE004, QF contract and TrueSolar	20	20	20	20	1676-E	37614	E-3809	37651		TURN database	unknown, but presumably none	60293E									
SCE	SCE009	643 - 2127	SCE009, SCE010, SCE011, SCE012, SCE013, SCE014	37	110	37	110	1876-E	38419	E-3934	38533			unknown	Unknown									
SCE	SCE010	643 - 2127	SCE009, SCE010, SCE011, SCE012, SCE013, SCE014	56	168	56	168	1876-E	38419	E-3934	38533			unknown	Unknown									
SCE	SCE011	643 - 2127	SCE009, SCE010, SCE011, SCE012, SCE013, SCE014	231	925	231	925	1876-E	38419	E-3934	38533			yes, major cause for operational delay	60500C									

SCE	SCE012	643 - 2127	SCE009, SCE010, SCE011, SCE012, SCE013, SCE014	118	159	118	159	1876-E	38419	E-3934	38533			yes, major cause for operational delay	60487C								
SCE	SCE013	643 - 2127	SCE009, SCE010, SCE011, SCE012, SCE013, SCE014	47	394	47	394	1876-E	38419	E-3934	38533			yes, major cause for operational delay	60029A								
SCE	SCE014	643 - 2127	SCE009, SCE010, SCE011, SCE012, SCE013, SCE014	154	370	154	370	1876-E	38419	E-3934	38533			yes, major cause for operational delay	Unknown								
SCE	SCE015			1047	1780	1047	1780	1909-E	38575	E-3967	38652			yes, major cause for operational delay	60504C	starts with 1 MW pilot project before proceeding with rest							
SCE	SCE016			132	132	132	132	1914-E	38595	E-3963	38687	2035-E (RE. E-4051) seeking revisions to contract		yes, major cause for operational delay	60542C	in part on SCE-owned land							
SCE	SCE018			0	9.9	0	9.9	Application	39084	D. 07-04-038	39184			no	60298E	Filed via Application (not Advice Letter) process because does not comport with required, standard terms and conditions, and because of price terms. Project represents possible expansion to existing QF.								

SCE	SCE025			4730	4888	4730	4888	Application	39269	pending	pending			yes	Unknown	Multiple PPAs will be siugned under a Master Agreement; no indication that requires SEPs, but also not clearly below 2005 MPR in all instances								
SCE	SCE026			416	832	416	832	2137-E	39276	E-4126	39520			yes	60640C									
SCE	SCE027			578.2	722.7	578.2	722.7	2143-E	39290	pending	pending			unknown	60518D	Located in Baja, Mexico								
SCE	SCE028			95.7	184.5	95.7	184.5	2143-E	39290	pending	pending			unknown	Unknown									
SCE	SCE029			2.3	2.3	2.3	2.3	2143-E	39290	pending	pending			no	Unknown									
SCE	SCE031			250	832	250	832	2198-E	39447	pending	pending			unknown	Unknown									
SCE	SCE032			197	212	197	212	2198-E	39447	pending	pending			unknown	Unknown									
SCE	SCE033			17.7	49.7	17.7	49.7	2198-E	39447	pending	pending			unknown	Unknown									
SCE	SCE032			12.26	12.26	12.26	12.26	2203-E	39470	pending	pending			unknown	Unknown	Standard biomass contract								
SCE	SCE033			12.26	12.26	12.26	12.26	2203-E	39470	pending	pending			unknown	Unknown	Standard biomass contract								
SDG&E	SDGE1			81	81	81	81	1445-E	37564	E-3803	37595	1554-E (Res. E-3867) seeking and approving delay	SDG&E Contract Factsheets	unknown, but presumably none	60430A	delay allowed, but project made it on line in time								
SDG&E	SDGE4			179	179	179	179	1445-E	37564	E-3803	37595	1594-E (Res. E-3883) seeking and approving delay	SDG&E Contract Factsheets	unknown, but presumably none	60489A									
SDG&E	SDGE6			19	19	19	19	1445-E	37564	E-3803	37595	1554-E (Res. E-3867) seeking and approving delay	SDG&E Contract Factsheets, TURN Database	unknown, but presumably none	60486A									
SDG&E	SDGE14			20	20	20	20	1555-E	38000	E-3868	38134		TURN database	no	60470A									
SDG&E	SDGE15			101	101	101	101	1596-E	38153	E-3890	38267	Res. E-3884 (initial rejection of contract)	SDG&E Contract Factsheets	yes, 69kV radial line interconnect	60432A									
SDG&E	SDGE16	743 by 2010; 1415 by 2014	SDGE016, SDGE017, SDGE018	648	1944	648	1944	1727-E-A	38671	E-3965	38701		2006 compliance report	yes, contingent on Sunrise for phase 2-3; no bottlenecks for phase 1	60566C	Appears delayed somewhat, but not altogether clear								

SDG&E	SDGE17	743 by 2010; 1415 by 2014	SDGE016, SDGE017, SDGE018	70.128	70.128	70.128	70.128	1727-E-A	38671	E-3965	38701		SDG&E Contract Factsheets; 2006 compliance report	may upgrade from distribution to transmission lines	60552A?	plant at 5 MW today under earlier contract; upgrading to 15 MW								
SDG&E	SDGE18	743 by 2010; 1415 by 2014	SDGE016, SDGE017, SDGE018	24	24	24	24	1727-E-A	38671	E-3965	38701		TURN database	no	60472D	not listed in January 2006 transmission status update; assume that contract is still on-track								
SDG&E	SDGE19			603	603	603	603	1734-E	38652	E-3979	38862	1966-E provides extension of time for financing commitments		yes, Tehachapi phase 2, or alternate	Unknown									
SDG&E	SDGE21			168	168	168	168	1845-E	39041	E-4073	39156	1946-E expanded capacity and energy, and increase pricing		yes	60503C									
SDG&E	SDGE22			166	166	166	166	1845-E	39041	E-4073	39156			unknown	60494D									
SDG&E	SDGE23			304	304	304	304	1845-E	39041	E-4073	39156	1975-E expands output, includes solid biofuel, increases pricing		not dependent on Sunrise	Unknown	contingent on ITC								
SDG&E	SDGE24			168	168	168	168	1845-E	39041	E-4073	39156			not dependent on Sunrise	Unknown	contingent on ITC								
SDG&E	SDGE26			11.826	11.826	11.826	11.826	U 902-E	39351	D.08-01-028	39478			no	60630C	proof of concept facility								
SDG&E	SDGE27			41.61	41.61	41.61	41.61	1947-E	39406	pending	pending			no	In Progress	contract contingent on Vista project								
SDG&E	SDGE28			41.61	41.61	41.61	41.61	1947-E	39406	pending	pending			no	In Progress	contract contingent on Vista project								
SDG&E	SDGE29			319.44	319.44	319.44	319.44	1963-E	39479	pending	pending			presumably yes	Unknown									
PG&E	PGE005	106	PGE005, PGE006	65	65	32.5	32.5	2562-E	38267	E-3900	38310		2006 compliance report	no	60030C									
PG&E	PGE011	490 (472 incremental)	PGE010, PGE011, PGE012	95	95	77	77	2655-E	38468	E-3946	38554	In 2006, 2827-E (Res. E-4024) altered contract terms	TURN database; 2006 compliance report	no	60124A	contract revised in 2006 to shorted term, raise price								
SCE	SCE005	24.71 incremental	SCE005, SCE006, SCE007, SCE008	41.185	41.185	4.7	4.7	1879-E	38436	E-3935	38554			unknown, but presumably none	60404E									

SCE	SCE006	24.71 incremental	SCE005, SCE006, SCE007, SCE008	20	20	0	0	1879-E	38436	E-3935	38554			unknown, but presumably none	60411E								
SCE	SCE007	24.71 incremental	SCE005, SCE006, SCE007, SCE008	35.6	35.6	13.6	13.6	1879-E	38436	E-3935	38554			unknown, but presumably none	60396E								
SCE	SCE008	24.71 incremental	SCE005, SCE006, SCE007, SCE008	11.162	11.162	6.41	6.41	1879-E	38436	E-3935	38554			unknown, but presumably none	60390E								
SCE	SCE019			36.13468	44	0	0	Application	39084	07-05-046	39226			no	60608D	Filed via Application (not Advice Letter) process because does not comport with required, standard terms and conditions, and because of price terms.								
SCE	SCE020			14.68354	40	14.6835443	40	Application	39084	07-05-046	39226			yes, for expansion	60608D	Filed via Application (not Advice Letter) process because does not comport with required, standard terms and conditions, and because of price terms.								
SCE	SCE021			13.59003	40	0	0	Application	39084	07-05-046	39226			no	60609D	Filed via Application (not Advice Letter) process because does not comport with required, standard terms and conditions, and because of price terms.								

SCE	SCE022			12.40517	42	12.40516735	42	Application	39084	07-05-046	39226			yes, for expansion	60609D	Filed via Application (not Advice Letter) process because does not comport with required, standard terms and conditions, and because of price terms.								
SCE	SCE030			12.6	12.6	0	0	2143-E	39290	pending	pending			no	60631C	Facility currently providing 4 MW via a SO#4 contract; this project represents a repowering to a 1.6 MW plant by replacing existing steam generators with microturbines								
PG&E	PGE014	146	PGE014, PGE015	65	72	65	72	2718-E	38623	E-4047	39065	Original AL withdrawn and resubmitted as 2865-E on July 28, 2006 with higher price, and AL 2865-EA on November 13, 2006. R.E-4047 on December 14, 2006 . AL 3044-E on April 30, 2007 (RE-4110).	TURN database, 2006 compliance report	no	60471C	Biomass re-start								

PG&E	PGE015	146	PGE014, PGE015	65	72	65	72	2718-E	38623	E-4047	39065	Original AL withdrawn and resubmitted as 2865-E on July 28, 2006 with higher price, and AL 2865-EA on November 13, 2006. R.E-4047 on December 14, 2006 . AL 3044-E on April 30, 2007 (RE-4110).	TURN database, 2006 compliance report	no	60473C	Biomass re-start								
PG&E	PGE017	735	PGE017, PGE018, PGE019	119	385.44	119.136	385.44	2827-E	38852	E-4021	38995	AL 3131-E lowers initial capacity to 10 MW, extends initial deliver, and states expected ultimate capacity of 19 MW.	2006 compliance report	unknown	60604A									
SCE	SCE017			123.5	132	123.5	132	Application	39084	D. 07-04-039	39184			no	60020A	Previously a DWR contract that experienced a fire								
SCE	SCE023			105	105	105	105	Application	39129	07-08-028	39307			unknown	60574C	Re-start of biomass facility that closed down in 1994; Filed via Application (not Advice Letter) process because does not comport with required, standard terms and conditions								

Appendix C. Transmission Owner Interconnection Queue

RETI PHase 1B Draft Report
Appendix C
Transmisison Owner Interconnection Queue

Interconnection Request Receive Date	Queue Date	Application S	Type	Fuel	Summer	Winter	County	State	Utility	Station or Transmissio	Proposed On-line Date (as filed with IR)	Current On-line Date	Feasibility Study (IFS)	System Impact Study (SIS)	Facility Study (FAS)	Optional Study (OS)	Interconnection Agreement Status	Source
6/6/2006	7/23/2008		geothermal	geothermal	32		Churchill	NV	SPPC	230kV	6/30/2009							Sierra Pacific Power Company Interconnection Requests
6/6/2006	7/23/2008		geothermal	geothermal	32		Lander-Pershing	NV	SPPC	Cove Sub	10/30/2009							Sierra Pacific Power Company Interconnection Requests
7/19/2006	7/23/2008		geothermal	geothermal	62		Churchill	NV	SPPC	230kV	6/1/2008							Sierra Pacific Power Company Interconnection Requests
5/9/2007	7/23/2008		geothermal	geothermal	10		Nye	NV	SPPC	Big Smoky Vly	12/31/2007							Sierra Pacific Power Company Interconnection Requests
8/3/2007	7/23/2008		geothermal	geothermal	26		Lander	NV	SPPC	Tonkin Spg	10/30/2010							Sierra Pacific Power Company Interconnection Requests
8/20/2007	7/23/2008		geothermal	geothermal	21		Esmeralda	NV	SPPC	Silver Pk Sub	9/1/2011							Sierra Pacific Power Company Interconnection Requests
8/29/2007	7/23/2008		geothermal	geothermal	10		Nye	NV	SPPC	Big Smoky Vly	9/1/2008							Sierra Pacific Power Company Interconnection Requests
9/6/2007	7/23/2008		geothermal	geothermal	30		Lander	NV	SPPC	Antelope Sub	9/1/2011							Sierra Pacific Power Company Interconnection Requests
9/12/2007	7/23/2008		geothermal	geothermal	30		Lander-Pershing	NV	SPPC	#152 Ln	6/1/2008							Sierra Pacific Power Company Interconnection Requests
9/12/2007	7/23/2008		geothermal	geothermal	10		Nye	NV	SPPC	Big Smoky Vly	6/1/2008							Sierra Pacific Power Company Interconnection Requests
9/12/2007	7/23/2008		geothermal	geothermal	32		Nye	NV	SPPC	Round Mtn Sub	6/1/2008							Sierra Pacific Power Company Interconnection Requests
7/14/2008	7/23/2008		geothermal	geothermal	240		Lyon	NV	SPPC	345kV	1/1/2012							Sierra Pacific Power Company Interconnection Requests
7/17/2008	7/23/2008		geothermal	geothermal	45		Washoe	NV	SPPC	Purgatory Sub	10/1/2011							Sierra Pacific Power Company Interconnection Requests
4/15/2008	7/23/2008		gas	natural gas	250		Washoe	NV	SPPC	Fort Sage Sub	6/1/2010							Sierra Pacific Power Company Interconnection Requests
3/4/2008	7/23/2008		steam turbine	solar	190		Nye	NV	SPPC	Tonopah Sub	12/31/2011							Sierra Pacific Power Company Interconnection Requests
6/23/2008	7/23/2008		steam turbine	solar	50		Mineral	NV	SPPC	Table Mtn Sub	6/1/2010							Sierra Pacific Power Company Interconnection Requests

			solar								Sierra Pacific Power Company Interconnection
6/23/2008	7/23/2008	steam turbine		500	Nye	NV	SPPC	Millers Sub	7/1/2012		Requests
8/29/2005	7/23/2008	wind turbine	wind	150	Washoe	NV	SPPC	Eagle Sub	10/15/2007		Sierra Pacific Power Company Interconnection Requests
3/13/2006	7/23/2008	wind turbine	wind	149	White Pine	NV	SPPC	230kV	12/1/2008		Sierra Pacific Power Company Interconnection Requests
9/27/2006	7/23/2008	wind turbine	wind	200	Lassen	CA	SPPC	Alturas 345kV	11/1/2009		Sierra Pacific Power Company Interconnection Requests
10/23/2006	7/23/2008	wind turbine	wind	60	Washoe	NV	SPPC	Eagle Sub	7/1/2008		Sierra Pacific Power Company Interconnection Requests
1/5/2007	7/23/2008	wind turbine	wind	150	Lyon	NV	SPPC	Dove Sub	12/1/2008		Sierra Pacific Power Company Interconnection Requests
3/23/2007	7/23/2008	wind turbine	wind	100	Washoe	NV	SPPC	Tracy	12/31/2008		Sierra Pacific Power Company Interconnection Requests
3/29/2007	7/23/2008	wind turbine	wind	150	Lyon	NV	SPPC	Dove Sub	11/15/2011		Sierra Pacific Power Company Interconnection Requests
4/16/2007	7/23/2008	wind turbine	wind	202	Elko	NV	SPPC	Mdpt-Vmy 345kV	7/15/2010		Sierra Pacific Power Company Interconnection Requests
5/11/2007	7/23/2008	wind turbine	wind	149	White Pine	NV	SPPC	230kV	6/30/2009		Sierra Pacific Power Company Interconnection Requests
6/5/2007	7/23/2008	wind turbine	wind	100	White Pine	NV	SPPC	Gonder Sub	12/1/2011		Sierra Pacific Power Company Interconnection Requests
7/10/2007	7/23/2008	wind turbine	wind	250	White Pine	NV	SPPC	Gonder Sub	9/1/2010		Sierra Pacific Power Company Interconnection Requests
8/21/2007	7/23/2008	wind turbine	wind	200	White Pine	NV	SPPC	Gonder Sub	9/1/2010		Sierra Pacific Power Company Interconnection Requests
9/5/2007	7/23/2008	wind turbine	wind	200	Elko	NV	SPPC	Humb-Mdpt 345KV	10/1/2011		Sierra Pacific Power Company Interconnection Requests
9/6/2007	7/23/2008	wind turbine	wind	102	Washoe	NV	SPPC	Tracy	9/1/2009		Sierra Pacific Power Company Interconnection Requests
8/13/2007		biogas	biogas	4.5	4.5 Maricopa	AZ	APS	Adobe 12kV	6/1/2009	Completed	APS OASIS
9/18/2007		biogas	biogas	3	3 Maricopa	AZ	APS	El Sol 12 kV	12/15/2008		APS OASIS
7/31/2007		steam turbine	solar	102	102 Maricopa	AZ	APS	Gila Bend 230kV Substa	10/1/2010	Completed	APS OASIS
7/31/2007		steam turbine	solar	110	110 Maricopa	AZ	APS	Proposed Harquahala Ju	10/1/2010	Completed	APS OASIS
8/13/2007		steam turbine	solar	400	400 Yuma	AZ	APS	North Gila Substation	12/31/2010	Completed	APS OASIS
11/27/2007		steam turbine	solar	400	400 Maricopa	AZ	APS	Proposed Harquahala Ju	7/31/2011	Completed	APS OASIS
11/27/2007		steam turbine	solar	800	800 Maricopa	AZ	APS	Proposed Harquahala Ju	1/1/2013		APS OASIS
2/19/2008		steam turbine	solar	280	280 Maricopa	AZ	APS	Gila Bend 230kV Substa	12/1/2011		APS OASIS
2/22/2008		steam turbine	solar	500	500 Maricopa	AZ	APS	Proposed Harquahala Ju	6/30/2012		APS OASIS
2/22/2008		steam turbine	solar	500	500 Yuma	AZ	APS	Proposed PV-NG2 500 k	6/30/2012		APS OASIS

12/10/2008			steam turbine	solar	250	250	Yuma	AZ	APS	North Gila Substation	7/4/1905							APS OASIS
5/27/2004			wind turbine	wind	60	60	Conconino	AZ	APS	Cholla to Coconino 69Kv Line			Completed	Completed	Completed			APS OASIS
4/29/2005			wind turbine	wind	128	128	Navajo	AZ	APS	Cholla/ Zeniff/Show Low	8/17/2009		Completed					APS OASIS
6/15/2006			wind turbine	wind	270	270	Yavapai	AZ	APS	Ashfork-Pollock 69 kV S	12/31/2011			Completed				APS OASIS
3/1/2007			wind turbine	wind	125	125	Navajo	AZ	APS	Cholla / Show Low Easte	11/1/2012		Completed					APS OASIS
7/6/2007			wind turbine	wind	100	100	Cochise	AZ	APS	Adams - Mural 115 kV Li	12/31/2010		Completed					APS OASIS
10/31/2007			wind turbine	wind	1000	1000	Coconino	AZ	APS	Moenkopi 500kV	7/1/2010							APS OASIS
11/19/2007			wind turbine	wind	300	300	Navajo	AZ	APS	Cholla-Pinnacle Peak 34	11/1/2010		Completed					APS OASIS
12/28/2007			wind turbine	wind	500	500	Coconino	AZ	APS	Moenkopi - Eldorado 50(	7/1/2010		Completed					APS OASIS
2/16/2004			coal		700	700	San Juan	NM	APS	Four Corners 500 Switch	1/1/2012			Completed	Completed			APS OASIS
2/16/2004			coal		700	700	San Juan	NM	APS	Four Corners 500 Switch	4/1/2012		Completed	Completed	Completed			APS OASIS
12/14/2006			landfill gas		3.6	3.6	Phoenix	AZ	APS	Existing Durango Substa	12/31/2008		Completed					APS OASIS
				wind	80		Mohave	AZ	TEP	Dolan Springs Sub								AZISO
1/3/2008	1/3/2008	Active	reciprocating e	biomass	5.2		Fresno	CA	PGE	Helm-Kerman 70kV line	6/1/2009	6/1/2009	In Progress					CAISO
4/28/2005	7/15/2005	Active	steam turbine	biomass	10.5		Madera	CA	PGE	Le Grand-Chowcilla 115	12/31/2005	1/31/2008	NA	Complete	Complete		GSFA Execut	CAISO
4/28/2005	7/15/2005	Active	steam turbine	biomass	10.5		Merced	CA	PGE	PG&E Merced #1 70 kV	7/1/2006	2/29/2008	NA	Complete	Complete		GSFA Execut	CAISO
5/2/2006	5/2/2006	Active	steam turbine	biomass	27		San Diego	CA	SDGE	Border Substation 69 kV	12/1/2008	12/1/2008	Complete	Complete	Complete		In Progress	CAISO
6/23/2006	6/26/2006	Active	steam turbine	biomass	20		Kern	CA	PGE	Tap of Chevron 70kv trai	8/31/2009	8/31/2009	NA	Complete	Complete		GSFA Execut	CAISO
12/11/2007	12/12/2007	Active	steam turbine	biomass	29		Madera	CA	PGE	Tap Dairyland-Mendota	5/31/2008	12/31/2008	Waived	In Progress				CAISO
1/25/2005	2/22/2005	Active	steam turbine	geothermal	62		Mineral	NV	SCE	Control 115kV Substatio	10/7/2007	2/1/2012	NA	Complete	Complete	Completed	Filed Unexecu	CAISO
3/5/2007	3/5/2007	Active	steam turbine	geothermal	35		Sonoma	CA	PGE	Geysers #3 – Cloverdale	1/1/2010	1/1/2010	Complete	Complete	In Progress			CAISO
3/6/2007	3/6/2007	Active	steam turbine	geothermal	150		Mineral	NV	SCE	Bishop, CA Control Sub	8/1/2011	1/1/2011	Waived	In Progress				CAISO
3/14/2007	3/14/2007	Active	steam turbine	geothermal	50		Sonoma	CA	PGE	Geysers-Fulton 230kV tr	1/1/2011	1/1/2011	Waived	Complete	In Progress			CAISO
11/8/2006	11/8/2006	Active	combined cycl	heat recovery	591		Clark	NV	SCE	Eldorado 500 kV Substa	6/1/2010	6/1/2010	Complete	In Progress				CAISO
5/9/2005	6/14/2005	Active	internal combu	landfill gas	10.7		San Mateo	CA	PGE	Hillsdale Junction-Half M	12/23/2005	9/4/2008	NA	Complete	Complete		GSFA Execut	CAISO
8/10/1999	2/3/2000	Active	combined cycl	natural gas	590		Contra Costa	CA	PGE	Contra Costa Power Plai	11/28/2007	11/1/2009	N/A	Complete	Complete		GSFA Execut	CAISO
11/1/1999	11/1/1999	Active	combined cycl	natural gas	550	550	San Diego	CA	SDGE	Miguel Substation	3/1/2002	5/1/2009	N/A	Complete	Complete		IA Executed	CAISO
4/21/2000	6/14/2000	Active	combined cycl	natural gas	850		Riverside	CA	SCE	Devers Substation 230 k	1/1/2004	5/1/2008	NA	Complete	udy Complete	Complete	In Progress	CAISO
8/16/2000	10/6/2000	Active	combined cycl	natural gas	630		Los Angeles	CA	SCE	El Segundo 220 kV Bus	8/1/2009	6/1/2011	NA	Complete	Complete	Complete	Executed	CAISO
8/23/2000	8/23/2000	Active	combined cycl	natural gas	1156		San Joaquin	CA	PGE	Tesla Substation 230 kV	6/1/2008	12/31/2010	NA	udy Complete	Complete		GSFA Execut	CAISO
11/28/2000	11/28/2000	Active	combined cycl	natural gas	750		San Diego	CA	SDGE	Sycamore Canyon Subs	6/1/2004	12/31/2010	NA	Complete	ly in Progress		In Progress	CAISO
12/1/2000	12/1/2000	Active	combined cycl	natural gas	1200		San Luis Obispc	CA	PGE	Morro Bay Substation	1/1/2008	1/1/2008	NA	Complete	Complete		GSFA Execut	CAISO
1/7/2003	1/7/2003	Active	combined cycl	natural gas	65		San Diego	CA	SDGE	Miguel-Tijuana * (65 MV	12/31/2004	5/1/2009	NA	Complete	Complete		IA Tendered	CAISO
3/18/2003	3/18/2003	Active	combined cycl	natural gas	520		Riverside	CA	SCE	Devers-Palo Verde 500 I	1/1/2006	6/1/2008	NA	Complete	Complete		Executed	CAISO
12/1/2004	2/8/2005	Active	combined cycl	natural gas	715		Colusa	CA	PGE	Between Cottonwood an	1/1/2010	5/1/2010	NA	Complete	Complete		Executed	CAISO
12/21/2004	12/21/2004	Active	combined cycl	natural gas	810		Riverside	CA	SCE	SCE Valley Substation	5/31/2008	8/4/2008	NA	Complete	Complete		IA Executed	CAISO
3/28/2005	5/9/2005	Active	combined cycl	natural gas	245		Alameda	CA	PGE	Eastshore Substation	7/31/2008	7/31/2008	NA	Complete	udy Complete		Executed	CAISO
9/12/2005	9/12/2005	Active	combined cycl	natural gas	610		Los Angeles	CA	SCE	Laguna Bell Substation 2	7/31/2008	3/31/2009	Waived	udy Complete	udy Complete			CAISO
2/13/2006	2/13/2006	Active	combined cycl	natural gas	570		San Bernardino	CA	SCE	Caldwell-Victor line	7/1/2009	4/1/2010	Waived	Complete	In Progress			CAISO
2/24/2006	2/24/2006	Active	combined cycl	natural gas	570		Los Angeles	CA	SCE	Vincent 230 kV	7/1/2009	8/1/2010	NA	Complete	Tendered			CAISO
10/24/2006	10/24/2006	Active	combined cycl	natural gas	698		San Bernardino	CA	SCE	SCE Rancho Vista 500k	6/1/2010	6/1/2010	Waived	Complete	In Progress			CAISO
2/8/2007	2/15/2007	Active	combined cycl	natural gas	508		San Joaquin	CA	PGE	Tesla-Bellota 230kV line	5/15/2011	5/15/2011	Complete	In Progress				CAISO
3/30/2007	3/30/2007	Active	combined cycl	natural gas	280		San Diego	CA	SDGE	Encina 138kV Substatior	5/1/2010	5/1/2010	Waived	Complete	In Progress			CAISO
5/23/2007	6/4/2007	Active	combined cycl	natural gas	640		Riverside	CA	SCE	500kV line to the new Mi	6/1/2012	6/1/2012	In Progress					CAISO
6/12/2007	7/2/2007	Active	combined cycl	natural gas	634		Clark	NV	SCE	Eldorado 220kV switchya	5/1/2011	5/1/2011	Waived	In Progress				CAISO
7/30/2007	7/30/2007	Active	combined cycl	natural gas	67		Madera	CA	PGE	Borden Substation 230k	7/1/2011	4/15/2012	Waived	In Progress				CAISO
7/30/2007	7/30/2007	Active	combined cycl	natural gas	67		San Joaquin	CA	PGE	Tesla-Bellota 230kV line	5/15/2011	5/15/2011	Waived	In Progress				CAISO
8/21/2007	8/21/2007	Active	combined cycl	natural gas	600		Kings	CA	PGE	Gates Substation 230kV	6/1/2012	6/1/2012	Complete	In Progress				CAISO
9/10/2007	9/10/2007	Active	combined cycl	natural gas	575		Solano	CA	PGE	New Fairfield Substation	6/1/2011	6/1/2011	dy In Progress					CAISO
9/12/2007	9/12/2007	Active	combined cycl	natural gas	520		Contra Costa	CA	PGE	Contra Costa Substation	2/1/2012	2/1/2012	In Progress					CAISO
9/12/2007	9/12/2007	Active	combined cycl	natural gas	260		San Joaquin	CA	PGE	Loop Gold Hill-Eight Mile	2/1/2012	2/1/2012	In Progress					CAISO
9/12/2007	9/12/2007	Active	combined cycl	natural gas	345		Sutter	CA	PGE	Rio Oso Substation 115k	2/1/2012	2/1/2012	In Progress					CAISO
9/28/2007	9/28/2007	Active	combined cycl	natural gas	104		Los Angeles	CA	SCE	Hinson Substation 220kV	10/1/2010	10/1/2010	In Progress					CAISO
10/19/2007	10/19/2007	Active	combined cycl	natural gas	325		Sutter	CA	PGE	Rio Oso Substation 230k	2/1/2012	2/1/2012	In Progress					CAISO
10/23/2007	10/23/2007	Active	combined cycl	natural gas	280		San Joaquin	CA	PGE	Gold Hill-Eight Mile 230k	4/16/2012	4/16/2012	In Progress					CAISO
11/5/2007	11/5/2007	Active	combined cycl	natural gas	54		San Diego	CA	SDGE	Palomar Substation 230l	6/1/2008	6/1/2008	Waived	Complete	Waived		In Progress	CAISO
11/9/2007	11/9/2007	Active	combined cycl	natural gas	650		Contra Costa	CA	PGE	Contra Costa Switchyarc	1/15/2012	1/15/2012	In Progress					CAISO
1/29/2008	2/4/2008	Active	combined cycl	natural gas	400		Kern	CA	PGE	Midway Substation 230k	9/1/2014	9/1/2014	Tendered					CAISO
1/29/2008	1/29/2008	Active	combined cycl	natural gas	27		Kings	CA	PGE	Hanford Switchyard 115l	5/1/2010	5/1/2010	Waived	In Progress				CAISO
3/10/2008	3/10/2008	Active	combined cycl	natural gas	611		Contra Costa	CA	PGE	Contra Costa Substation	7/30/2012	7/30/2012						CAISO
3/17/2008	3/18/2008	Active	combined cycl	natural gas	611		Contra Costa	CA	PGE	Pittsburg 230kV switchya	9/30/2012	9/30/2012						CAISO
4/17/2008	4/17/2008	Active	combined cycl	natural gas	10		Fresno	CA	PGE	Kerman-Helms 70kV line	6/1/2010	6/1/2010						CAISO
5/9/2008	5/23/2008	Active	combined cycl	natural gas	337.5		Fresno	CA	PGE	McCall Substation 115k\	12/1/2010	12/1/2010						CAISO
5/9/2008	5/23/2008	Active	combined cycl	natural gas	337.5		Fresno	CA	PGE	McCall Substation 115k\	12/1/2010	12/1/2010						CAISO
5/28/2008	5/28/2008	Active	combined cycl	natural gas	123		Santa Clara	CA	PGE	Los Esteros Substation 1	6/1/2011	6/1/2011						CAISO
5/28/2008	5/28/2008	Active	combined cycl	natural gas	600		Sutter	CA	PGE	Table Mountain-Tesla 50	5/1/2012	5/1/2012						CAISO
5/29/2008	5/29/2008	Active	combined cycl	natural gas	85		Los Angeles	CA	SCE	Hinson Substation 230k\	5/31/2012	5/31/2012						CAISO
5/30/2008	5/30/2008	Active	combined cycl	natural gas	600		Kern	CA	PGE	Midway Substation 230k	6/1/2012	6/1/2012						CAISO
6/2/2008	6/2/2008	Active	combined cycl	natural gas	730		Solano	CA	PGE	Loop Lakesville-Sobrant	6/15/2012	6/15/2012						CAISO
2/25/2004	2/25/2004	Active	combustion tu	natural gas	145.1		San Francisco	CA	PGE	Potrero 115 kV Sub	12/1/2006	6/1/2008	NA	Complete	Complete		Executed	CAISO

4/26/2004	4/26/2004	Active	combustion tu	natural gas	48.7		San Francisco	CA	PGE	SF Airport Substation	6/1/2006	6/1/2008	NA	Complete	Complete	GSFA Execut	CAISO
11/8/2004	11/8/2004	Active	combustion tu	natural gas	74.9		San Joaquin	CA	PGE	Tesla Substation	1/1/2007	1/1/2010	NA	Complete	Complete	Executed	CAISO
11/9/2004	11/18/2004	Active	combustion tu	natural gas	157		Kern	CA	SCE	Pastoria Substation	7/31/2006	7/31/2006	NA	Complete	In Progress		CAISO
11/11/2004	1/12/2005	Active	combustion tu	natural gas	119.9		Fresno	CA	PGE	Panoche Substation	6/1/2008	1/1/2009	NA	Complete	dy Complete	Executed	CAISO
11/24/2004	11/26/2004	Active	combustion tu	natural gas	300		Fresno	CA	PGE	McCall Substation	5/31/2007	3/31/2013	NA	Complete	Complete	Executed	CAISO
12/1/2004	12/1/2004	Active	combustion tu	natural gas	361		Alameda	CA	PGE	Eastshore substation	7/31/2006	6/1/2010	NA	Complete	dy Complete	Executed	CAISO
12/1/2004	12/21/2004	Active	combustion tu	natural gas	401		Fresno	CA	PGE	Panoche Sub Station	6/30/2008	8/1/2009	NA	udy Complete	dy Complete	Executed	CAISO
3/28/2005	3/28/2005	Active	combustion tu	natural gas	94		Kern	CA	PGE	Kern Oil Substation 115	3/31/2007	3/31/2013	NA	Complete	Complete	Executed	CAISO
5/6/2005	5/6/2005	Active	combustion tu	natural gas	500.5		Los Angeles	CA	SCE	Walnut Substation	9/1/2007	3/5/2011	NA	dy In Progress	Complete	Executed	CAISO
2/16/2006	2/16/2006	Active	combustion tu	natural gas	93		San Diego	CA	SDGE	Existing radial 69kV gen	6/1/2007	6/1/2009	Complete	Complete	Complete	In Progress	CAISO
4/14/2006	5/3/2006	Active	combustion tu	natural gas	304		Los Angeles	CA	SCE	Laguna Bell 230 kV Subs	7/31/2009	7/31/2009	Waived	dy In Progress	dy In Progress		CAISO
8/16/2006	8/17/2006	Active	combustion tu	natural gas	49		San Diego	CA	SDGE	SDG&E Miramar GT Sut	3/31/2009	4/1/2009	Waived	Complete	Complete	In Progress	CAISO
9/1/2006	9/1/2006	Active	combustion tu	natural gas	565	600	Fresno	CA	PGE	McCall Substation	12/1/2010	12/1/2010	Complete	Complete	In Progress		CAISO
10/16/2006	10/16/2006	Active	combustion tu	natural gas	300		San Bernardino	CA	SCE	Etiwanda 230kV Substat	1/1/2010	1/1/2010	Waived	Complete	In Progress		CAISO
10/17/2006	10/17/2006	Active	combustion tu	natural gas	300		San Diego	CA	SDGE	Encina Plant 230kV bus	8/1/2008	8/1/2010	Waived	Complete	In Progress		CAISO
11/16/2006	11/16/2006	Active	combustion tu	natural gas	43		San Diego	CA	SDGE	Border Substation	5/31/2008	5/15/2011	Complete	dy In Progress			CAISO
12/1/2006	12/1/2006	Active	combustion tu	natural gas	300		Alameda	CA	PGE	Oakland C 115kV substa	5/31/2010	5/31/2012	Complete	dy In Progress			CAISO
12/27/2006	1/4/2007	Active	combustion tu	natural gas	202		Los Angeles	CA	SCE	Harbor Cogen	5/1/2009	5/1/2010	Waived	dy In Progress	In Progress		CAISO
2/16/2007	2/16/2007	Active	combustion tu	natural gas	49.9		San Diego	CA	SDGE	Pala 69kV Substation	5/1/2008	5/1/2009	Waived	Complete	Complete	In Progress	CAISO
2/23/2007	2/23/2007	Active	combustion tu	natural gas	49.9		San Diego	CA	SDGE	Margarita 138kV Substat	5/1/2008	7/20/2008	Waived	Complete	Complete	Executed	CAISO
3/30/2007	3/30/2007	Active	combustion tu	natural gas	330		San Diego	CA	SDGE	Proposed Otay Mesa En	3/1/2011	3/1/2011	Complete	Complete	Tendered		CAISO
4/13/2007	4/13/2007	Active	combustion tu	natural gas	508		Madera	CA	PGE	Borden Substation 230k'	7/1/2011	4/15/2012	Complete	In Progress			CAISO
4/19/2007	4/19/2007	Active	combustion tu	natural gas	99		San Diego	CA	SDGE	Pala Substation	5/31/2008	5/31/2009	Waived	Complete	Complete	In Progress	CAISO
5/7/2007	5/23/2007	Active	combustion tu	natural gas	50		Riverside	CA	SCE	Midpoint switching statio	6/1/2012	6/1/2012	In Progress				CAISO
6/29/2007	6/29/2007	Active	combustion tu	natural gas	630		Contra Costa	CA	PGE	Tesla-Tracy #1 230kV lir	6/1/2011	6/1/2011	In Progress				CAISO
6/29/2007	6/29/2007	Active	combustion tu	natural gas	630		San Joaquin	CA	PGE	Tesla Substation 230kV	6/1/2011	6/1/2011	In Progress				CAISO
11/7/2007	11/7/2007	Active	combustion tu	natural gas	630		Solano	CA	PGE	Loop Vaca Dixon-Peabo	9/1/2012	9/1/2012	In Progress				CAISO
3/11/2008	3/11/2008	Active	combustion tu	natural gas	200		San Joaquin	CA	PGE	Tesla-Belota 230kV and	5/1/2012	5/1/2012					CAISO
3/12/2008	3/12/2008	Active	combustion tu	natural gas	476		Contra Costa	CA	PGE	Contra Costa Substation	4/29/2011	4/29/2011					CAISO
4/4/2008	4/4/2008	Active	combustion tu	natural gas	193.6		Alameda	CA	PGE	Kelso Substation 230kV	6/1/2012	6/1/2012	Tendered				CAISO
4/18/2008	4/18/2008	Active	combustion tu	natural gas	50		San Francisco	CA	PGE	Mission Substation	6/1/2011	6/1/2011					CAISO
4/23/2008	4/23/2008	Active	combustion tu	natural gas	525		Merced	CA	PGE	Wilson Substation 230k\	3/1/2012	3/1/2012					CAISO
4/25/2008	4/25/2008	Active	combustion tu	natural gas	49		Fresno	CA	PGE	Panoche Substation 115	7/1/2009	7/1/2009					CAISO
4/25/2008	4/25/2008	Active	combustion tu	natural gas	49		Fresno	CA	PGE	Tap Helm-Valley Nitroge	7/1/2009	7/1/2009					CAISO
4/25/2008	4/25/2008	Active	combustion tu	natural gas	49		Stanislaus	CA	PGE	Salado Substation 115k\	7/1/2009	7/1/2009					CAISO
4/25/2008	4/25/2008	Active	combustion tu	natural gas	49		Yolo	CA	PGE	Tap Vaca-Rio Oso 115k'	7/1/2009	7/1/2009					CAISO
5/1/2008	5/1/2008	Active	combustion tu	natural gas	200		Colusa	CA	PGE	Cortina Substation 230k'	6/1/2012	6/1/2012					CAISO
5/1/2008	5/19/2008	Active	combustion tu	natural gas	390.4		Solano	CA	PGE	Lambie-Contra costa Su	6/1/2012	6/1/2012					CAISO
5/9/2008	5/16/2008	Active	combustion tu	natural gas	150		San Diego	CA	SDGE	Esco Substation 69 kV	6/1/2010	6/1/2010					CAISO
5/9/2008	5/16/2008	Active	combustion tu	natural gas	150		San Diego	CA	SDGE	Esco Substation 69 kV	6/1/2010	6/1/2010					CAISO
5/1/2008	5/19/2008	Active	combustion tu	natural gas	390.4		Solano	CA	PGE	Lambie-Contra Costa Su	6/1/2012	6/1/2012					CAISO
5/27/2008	5/27/2008	Active	combustion tu	natural gas	315		San Joaquin	CA	PGE	Loop Tesla-Stagg and T	7/1/2012	7/1/2012					CAISO
5/27/2008	5/27/2008	Active	combustion tu	natural gas	49		Glenn	CA	PGE	Tap Cotonwood-Logan (	6/1/2010	6/1/2010					CAISO
5/28/2008	5/28/2008	Active	combustion tu	natural gas	600		Alameda	CA	PGE	Tracy Substation 230kV	5/1/2013	5/1/2013					CAISO
5/30/2008	5/30/2008	Active	combustion tu	natural gas	450		Kern	CA	PGE	Midway Substation 230k	6/1/2011	6/1/2011					CAISO
5/30/2008	5/30/2008	Active	combustion tu	natural gas	400		San Joaquin	CA	PGE	Tesla Substation 230kV	1/1/2013	1/1/2013					CAISO
5/30/2008	5/30/2008	Active	combustion tu	natural gas	188		Fresno	CA	PGE	Panoche Substation 230	3/1/2011	3/1/2011					CAISO
5/30/2008	5/30/2008	Active	combustion tu	natural gas	49		San Diego	CA	SDGE	Talega-Escondido 230k\	7/1/2009	7/1/2009					CAISO
5/30/2008	5/30/2008	Active	combustion tu	natural gas	49		San Diego	CA	SDGE	Lilac-Rincon 69kV	7/1/2009	7/1/2009					CAISO
5/30/2008	5/30/2008	Active	combustion tu	natural gas	49		San Diego	CA	SDGE	Pala-Lilac 69kV line	7/1/2009	7/1/2009					CAISO
5/30/2008	5/30/2008	Active	combustion tu	natural gas	49		Orange	CA	SDGE	Talega-San Mateo 69kV	7/1/2009	7/1/2009					CAISO
5/30/2008	5/30/2008	Active	combustion tu	natural gas	49		San Diego	CA	SDGE	Ash-Valley Center 69kV	7/1/2009	7/1/2009					CAISO
5/30/2008	5/30/2008	Active	combustion tu	natural gas	49		San Diego	CA	SDGE	Border Substation 69kV	7/1/2009	7/1/2009					CAISO
10/19/2004	11/11/2004	Active	internal comb	natural gas	118		Alameda	CA	PGE	Eastshore Substation	5/1/2007	10/1/2009	NA	Complete	Complete	Executed	CAISO
10/19/2004	11/11/2004	Active	internal comb	natural gas	146.4		Humboldt	CA	PGE	Humboldt Power Plant S	8/1/2008	6/30/2009	NA	Complete	Complete	In Progress	CAISO
10/10/2007	10/10/2007	Active	reciprocating e	natural gas	390.6		Solano	CA	PGE	Birds Landing Substatior	4/15/2012	4/15/2012	In Progress				CAISO
10/30/2007	10/31/2007	Active	reciprocating e	natural gas	371.3		San Joaquin	CA	PGE	Tesla Substation 230kV	4/15/2012	4/15/2012	Complete	In Progress			CAISO
12/13/2007	12/13/2007	Active	reciprocating e	natural gas	115		Mendocino	CA	PGE	Ukiah Substation 115kV	4/15/2012	4/15/2012	In Progress				CAISO
5/7/2008	5/12/2018	Active	reciprocating e	natural gas	115.5		Alameda	CA	PGE	Kelso Substation	6/1/2012	6/1/2012					CAISO
5/29/2008	5/29/2008	Active	steam turbine	natural gas	15		Inyo	CA	SCE	Kramer Substation 230k'	1/11/2010	1/11/2010					CAISO
5/29/2008	5/29/2008	Active	steam turbine	natural gas	15		Inyo	CA	SCE	Kramer Substation 230k'	1/11/2010	1/11/2010					CAISO
5/29/2008	5/29/2008	Active	steam turbine	natural gas	15		Inyo	CA	SCE	Inyokern Substation 115	1/11/2010	1/11/2010					CAISO
5/29/2008	5/29/2008	Active	steam turbine	natural gas	52.5		Churchill	NV	SCE	Bishop Substation	12/1/2012	12/1/2012					CAISO
5/29/2008	5/29/2008	Active	steam turbine	natural gas	52.5		Churchill	NV	SCE	Bishop Substation	12/1/2012	12/1/2012					CAISO
5/29/2008	5/29/2008	Active	steam turbine	natural gas	52.5		Churchill	NV	SCE	Bishop Substation	6/1/2013	6/1/2013					CAISO
5/29/2008	5/29/2008	Active	steam turbine	natural gas	52.5		Churchill	NV	SCE	Bishop Substation	6/1/2013	6/1/2013					CAISO
5/29/2008	5/29/2008	Active	steam turbine	natural gas	52.5		Churchill	NV	SCE	Bishop Substation	6/1/2012	6/1/2012					CAISO
5/29/2008	5/29/2008	Active	steam turbine	natural gas	52.5		Churchill	NV	SCE	Bishop Substation	6/1/2012	6/1/2012					CAISO
5/30/2008	5/30/2008	Active	steam turbine	natural gas	50		Lake	CA	PGE	Geysers 17-Fulton #2 23	7/31/2012	7/31/2012					CAISO
7/10/2007	8/6/2007	Active	steam turbine	natural gas	12.72		Los Angeles	CA	SCE	Redondo Beach Genera	5/23/2007	5/23/2007	Waived	In Progress			CAISO

10/24/2007	10/24/2007	Active	steam turbine	natural gas	145	San Joaquin	CA	PGE	Tesla-Manteca 115kV lir	4/1/2013	4/1/2013	Waived	Tendered			CAISO
5/28/2008	5/28/2008	Active	steam turbine	natural gas	49.9	Kern	CA	PGE	Famoso Substation	6/2/2011	6/2/2011					CAISO
5/30/2008	5/30/2008	Active	steam turbine	natural gas	49.85	Los Angeles	CA	SCE	ChevGen Substation	9/1/2010	9/1/2010					CAISO
11/1/2007	11/1/2007	Active	combined cycl	natural gas/solar	150	Kings	CA	PGE	Henrietta Substation 70k	5/1/2010	5/1/2010	In Progress				CAISO
3/30/2005	5/11/2005	Active	other	solar	850	San Bernadino	CA	SCE	Pisgah 230 kV Substatio	12/31/2009	12/31/2009	Waived by	In Progress	In Progress	Complete		CAISO
8/31/2005	8/31/2005	Active	other	solar	300	Imperial	CA	SDGE	Imperial Valley Substatic	12/31/2009	12/31/2009	Waived	Complete	Complete		Executed	CAISO
6/14/2006	6/16/2006	Active	other	solar	550	San Bernardino	CA	SCE	Pisgah Substation	3/1/2011	3/1/2011	Complete					CAISO
6/14/2006	6/16/2006	Active	other	solar	1400	San Bernardino	CA	SCE	Pisgah Substation	3/1/2013	3/1/2013	Complete					CAISO
8/9/2006	8/9/2006	Active	other	solar	1200	San Bernardino	CA	SCE	Mojave 500 kV Switchya	3/1/2011	3/1/2011	In Progress					CAISO
8/22/2006	8/22/2006	Active	other	solar	600	Imperial	CA	SDGE	Imperial Valley Substatic	3/1/2011	3/1/2011	Waived	Complete	In Progress			CAISO
5/21/2008	5/21/2008	Active	photovoltaic	solar	20	Kings	CA	PGE	Jacobs Corner Substatio	11/1/2010	11/1/2010						CAISO
5/30/2008	5/30/2008	Active	photovoltaic	solar	700	Kern	CA	SCE	Windhub Substation	5/1/2011	5/1/2011						CAISO
5/30/2008	5/30/2008	Active	photovoltaic	solar	250	Kern	CA	SCE	Cottonwind-Whirlwind 23	7/1/2012	7/1/2012						CAISO
5/30/2008	5/30/2008	Active	photovoltaic	solar	250	Kern	CA	SCE	Cottonwind-Whirlwind 23	7/1/2012	7/1/2012						CAISO
5/30/2008	5/30/2008	Active	photovoltaic	solar	250	Los Angeles	CA	SCE	Antelope-Magunden 230	8/1/2012	8/1/2012						CAISO
6/2/2008	6/2/2008	Active	photovoltaic	solar	100	Riverside	CA	SCE	Victor Substation 115kV	6/15/2010	6/15/2010						CAISO
6/2/2008	6/2/2008	Active	photovoltaic	solar	50	Riverside	CA	SCE	Antelope-Cal Cement 69	6/15/2010	6/15/2010						CAISO
6/2/2008	6/2/2008	Active	photovoltaic	solar	50	San Diego	CA	SDGE	Cameron Substation 69k	12/15/2009	12/15/2009						CAISO
6/2/2008	6/2/2008	Active	photovoltaic	solar	50	Kern	CA	SCE	Inyokern Substation 115	3/15/2010	3/15/2010						CAISO
6/2/2008	6/2/2008	Active	photovoltaic	solar	58.8	San Bernardino	CA	SCE	Dunn Siding Substaion 1	6/15/2010	6/15/2010						CAISO
6/2/2008	6/2/2008	Active	photovoltaic	solar	58.8	San Diego	CA	SDGE	Borrego Substation 69kV	6/15/2010	6/15/2010						CAISO
6/2/2008	6/2/2008	Active	photovoltaic	solar	58.8	San Diego	CA	SDGE	Warner Substation 69kV	6/30/2010	6/30/2010						CAISO
6/2/2008	6/2/2008	Active	photovoltaic	solar	50	Kern	CA	SCE	Redman Substation 69kV	9/15/2010	9/15/2010						CAISO
6/2/2008	6/2/2008	Active	photovoltaic	solar	50	Kern	CA	SCE	Little Rock Substaiton 69	10/15/2010	10/15/2010						CAISO
6/2/2008	6/2/2008	Active	photovoltaic	solar	100	Riverside	CA	SCE	Baker Substation 115kV	6/15/2010	6/15/2010						CAISO
11/16/2006	11/16/2006	Active	photovoltaic	solar	150	Riverside	CA	SCE	Eagle Mountain Substati	12/1/2008	12/1/2008	Complete	In Progress				CAISO
11/16/2006	11/16/2006	Active	photovoltaic	solar	400	Riverside	CA	SCE	Eagle Mountain Substati	2/1/2010	2/1/2010	Complete	In Progress				CAISO
1/9/2007	1/9/2007	Active	photovoltaic	solar	300	San Bernardino	CA	SCE	Ivanpah Substation	12/31/2010	12/31/2010	In Progress					CAISO
1/23/2007	1/23/2007	Active	photovoltaic	solar	210	San Luis Obispo	CA	PGE	Midway-Morrow Bay 230	12/31/2010	12/31/2010	Complete	In Progress				CAISO
3/5/2007	3/5/2007	Active	photovoltaic	solar	500	Kern	CA	SCE	Tehachapi Conceptual S	12/31/2010	12/31/2010	In Progress					CAISO
5/3/2007	5/3/2007	Active	photovoltaic	solar	600	Riverside	CA	SCE	Eagle Mountain Substati	12/31/2011	12/31/2011	In Progress					CAISO
5/23/2007	5/23/2007	Active	photovoltaic	solar	450	San Bernardino	CA	SCE	BLM West-Kramer 230kV	12/1/2011	12/1/2011	In Progress					CAISO
5/23/2007	5/23/2007	Active	photovoltaic	solar	450	San Bernardino	CA	SCE	Cool Water-Kramer #1 2	12/1/2011	12/1/2011	In Progress					CAISO
6/21/2007	6/21/2007	Active	photovoltaic	solar	1000	San Bernardino	CA	SCE	Devers Substation	12/31/2013	12/31/2013	In Progress					CAISO
6/21/2007	6/21/2007	Active	photovoltaic	solar	1000	San Bernardino	CA	SCE	Devers Substation	12/31/2013	12/31/2013	In Progress					CAISO
7/11/2007	7/11/2007	Active	photovoltaic	solar	45	San Luis Obispo	CA	PGE	Temblor-San Luis Obisp	12/1/2008	12/1/2008	In Progress					CAISO
7/11/2007	7/11/2007	Active	photovoltaic	solar	250	San Luis Obispo	CA	PGE	Midway-Morro Bay 230kV	12/1/2010	12/1/2010	In Progress					CAISO
7/13/2007	7/13/2007	Active	photovoltaic	solar	390	San Luis Obispo	CA	PGE	Morro Bay-Midway 230kV	9/1/2012	9/1/2012	In Progress					CAISO
8/1/2007	8/1/2007	Active	photovoltaic	solar	200	Riverside	CA	SCE	Eagle Mountain-Blythe 1	12/15/2009	12/15/2009	In Progress					CAISO
10/9/2007	10/9/2007	Active	photovoltaic	solar	5	Fresno	CA	PGE	Mendota-San Joaquin-H	4/15/2009	4/15/2009	N/A	In Progress				CAISO
11/1/2007	11/1/2007	Active	photovoltaic	solar	700	Riverside	CA	SCE	Proposed Midpoint Subs	12/1/2011	12/1/2011	Tendered					CAISO
11/1/2007	11/1/2007	Active	photovoltaic	solar	400	San Bernardino	CA	SCE	Lugo-Pisgah 230kV line	12/1/2012	12/1/2012	In Progress					CAISO
2/8/2008	2/8/2008	Active	photovoltaic	solar	500	San Bernardino	CA	SCE	Lugo-Pisgah 220kV line	1/1/2016	1/1/2016	Tendered					CAISO
2/28/2008	2/28/2008	Active	photovoltaic	solar	50	Tulare	CA	PGE	Smyrna-Alpaugh 115kV	5/3/2010	5/3/2010						CAISO
3/11/2008	3/11/2008	Active	photovoltaic	solar	100	Los Angeles	CA	SCE	Antelope Substation 66k	5/1/2009	5/1/2011						CAISO
3/11/2008	3/11/2008	Active	photovoltaic	solar	100	Los Angeles	CA	SCE	Antelope Substation 66k	5/1/2009	5/1/2011						CAISO
3/27/2008	3/27/2008	Active	photovoltaic	solar	100	Kern	CA	SCE	Kramer-Inyokern-Randsl	5/1/2009	5/1/2009						CAISO
4/2/2008	4/22/2008	Active	photovoltaic	solar	20	Tulare	CA	PGE	Smyrna-Alpaugh 115kV	5/1/2010	5/1/2010						CAISO
4/7/2008	4/7/2008	Active	photovoltaic	solar	75	San Diego	CA	SDGE	Borrego Substation 69kV	12/31/2010	12/31/2010						CAISO
4/25/2008	4/25/2008	Active	photovoltaic	solar	40	Kern	CA	SCE	Corum-Goldtown 66kV li	5/1/2013	5/1/2013						CAISO
4/25/2008	4/25/2008	Active	photovoltaic	solar	100	Kern	CA	SCE	Goldtown Substation	5/1/2013	5/1/2013						CAISO
4/25/2008	4/25/2008	Active	photovoltaic	solar	30	Los Angeles	CA	SCE	Lancaster-Redman 66kV	5/1/2011	5/1/2011						CAISO
4/25/2008	4/25/2008	Active	photovoltaic	solar	40	Los Angeles	CA	SCE	Piute-Redman 66kV line	5/1/2011	5/1/2011						CAISO
4/25/2008	4/25/2008	Active	photovoltaic	solar	40	Los Angeles	CA	SCE	Lancaster-Little Rock-Pi	5/1/2011	5/1/2011						CAISO
4/25/2008	4/25/2008	Active	photovoltaic	solar	40	Los Angeles	CA	SCE	Lancaster-Little Rock-Pi	5/1/2011	5/1/2011						CAISO
4/25/2008	4/25/2008	Active	photovoltaic	solar	50	Los Angeles	CA	SCE	Del Sur Substation	5/1/2011	5/1/2011						CAISO
4/25/2008	4/25/2008	Active	photovoltaic	solar	50	Los Angeles	CA	SCE	Helijet-Little Rock-Palmd	5/1/2011	5/1/2011						CAISO
4/25/2008	4/25/2008	Active	photovoltaic	solar	80	San Bernardino	CA	SCE	Eldorado-Baker-Cook W	5/1/2013	5/1/2013						CAISO
4/28/2008	4/28/2008	Active	photovoltaic	solar	50	Kern	CA	PGE	Midway-Sunset to Midwa	5/1/2010	5/1/2010						CAISO
4/28/2008	4/28/2008	Active	photovoltaic	solar	100	San Luis Obispo	CA	PGE	San Luis Obispo-Trembl	5/1/2011	5/1/2011						CAISO
4/28/2008	4/28/2008	Active	photovoltaic	solar	50	Santa Barbara	CA	PGE	Taft-Cuyama 70kV lines	5/1/2011	5/1/2011						CAISO
4/30/2008	4/30/2008	Active	photovoltaic	solar	100	Kern	CA	PGE	Midway-Sunset to Midwa	5/1/2011	5/1/2011						CAISO
5/1/2008	5/1/2008	Active	photovoltaic	solar	350	San Bernardino	CA	SCE	Eldorado-Baker-Cool Wa	3/1/2011	3/1/2011						CAISO
5/5/2008	5/6/2008	Active	photovoltaic	solar	700	Kern	CA	SCE	Windhub Substation	5/1/2013	5/1/2013						CAISO
5/5/2008	5/6/2008	Active	photovoltaic	solar	700	Kern	CA	SCE	Windhub Substation	5/1/2014	5/1/2014						CAISO
5/12/2008	5/12/2008	Active	photovoltaic	solar	50	Santa Barbara	CA	PGE	69kV line proximate to C	12/31/2009	12/31/2009						CAISO
5/28/2008	5/28/2008	Active	steam turbine	solar	612	San Bernardino	CA	SCE	Pisgah-Lugo 230kV line	12/1/2012	12/1/2012						CAISO
5/21/2008	5/29/2008	Active	steam turbine	solar	145	San Bernardino	CA	SCE	Lugo-Mohave 500kV line	5/1/2013	5/1/2013						CAISO
5/21/2008	5/29/2008	Active	steam turbine	solar	580	Clark	NV	SCE	Eldorado Substation 230	5/1/2013	5/1/2013						CAISO
5/21/2008	5/29/2008	Active	steam turbine	solar	270	San Bernardino	CA	SCE	Lugo-Eldorado 500kV lin	5/1/2013	5/1/2013						CAISO

5/29/2008	5/29/2008	Active steam turbine	solar	900	San Bernardino	CA	SCE	Mohave-Lugo 500kV line	2/1/2012	2/1/2012				CAISO
5/29/2008	5/29/2008	Active steam turbine	solar	600	San Bernardino	CA	SCE	Mohave-Lugo 500kV line	2/1/2012	2/1/2012				CAISO
5/29/2008	5/29/2008	Active steam turbine	solar	900	Imperial	CA	SDGE	North Gila-Imperial Valle	1/1/2012	1/1/2012				CAISO
5/29/2008	5/29/2008	Active steam turbine	solar	900	La Posa	AZ	SDGE	Palo Verde-North Gila 5(	1/1/2012	1/1/2012				CAISO
5/29/2008	5/29/2008	Active steam turbine	solar	600	La Paz/Maricopa	AZ	SCE	Devers-Palo Verde 500 I	1/1/2012	1/1/2012				CAISO
5/29/2008	5/29/2008	Active steam turbine	solar	900	Maricopa	AZ	SCE	Devers-Palo Verde 500 I	3/1/2012	3/1/2012				CAISO
5/29/2008	5/29/2008	Active steam turbine	solar	300	Maricopa	AZ	SDGE	North Gila-Hassayampa	3/1/2012	3/1/2012				CAISO
5/30/2008	5/30/2008	Active steam turbine	solar	100	Kern	CA	PGE	Midway Substation 230k	6/1/2012	6/1/2012				CAISO
5/30/2008	5/30/2008	Active steam turbine	solar	450	Imperial	CA	SDGE	Imperial Valley Substatic	12/31/2012	12/31/2012				CAISO
5/30/2008	5/30/2008	Active steam turbine	solar	49.5	Riverside	CA	SCE	Midpoint Substation 500I	8/1/2012	8/1/2012				CAISO
5/30/2008	5/30/2008	Active steam turbine	solar	49.5	Riverside	CA	SCE	Midpoint Substation 500I	8/1/2012	8/1/2012				CAISO
5/30/2008	5/30/2008	Active steam turbine	solar	280	Riverside	CA	SCE	Pisgah Substation 230k\	8/1/2012	8/1/2012				CAISO
5/30/2008	5/30/2008	Active steam turbine	solar	280	Imperial	CA	SDGE	Imperial Valley Substatic	7/1/2012	7/1/2012				CAISO
5/30/2008	5/30/2008	Active steam turbine	solar	280	Riverside	CA	SCE	Devers-Palo Verde 500k	8/1/2012	8/1/2012				CAISO
5/30/2008	5/30/2008	Active steam turbine	solar	280	Riverside	CA	SCE	Midpoint Substation 230I	8/1/2012	8/1/2012				CAISO
5/30/2008	5/30/2008	Active steam turbine	solar	49.5	San Diego	CA	SDGE	Borrego Substation 69kV	2/1/2013	2/1/2013				CAISO
5/30/2008	5/30/2008	Active steam turbine	solar	49.5	Riverside	CA	SCE	Eagle Mountain Substati	2/1/2012	2/1/2012				CAISO
5/30/2008	5/30/2008	Active steam turbine	solar	49.5	Riverside	CA	SCE	Camino-Iron Mountain 2	2/1/2012	2/1/2012				CAISO
5/30/2008	5/30/2008	Active steam turbine	solar	49.5	Riverside	CA	SCE	Camino-Iron Mountain 2	2/1/2012	2/1/2012				CAISO
5/30/2008	5/30/2008	Active steam turbine	solar	250	San Bernardino	CA	SCE	Mohave Switchyard	7/1/2014	7/1/2014				CAISO
5/30/2008	5/30/2008	Active steam turbine	solar	250	Riverside	CA	SCE	Colorado River Substatic	7/1/2014	7/1/2014				CAISO
5/30/2008	5/30/2008	Active steam turbine	solar	250	Clark	NV	SCE	Mohave Switchyard	7/1/2014	7/1/2014				CAISO
5/30/2008	5/30/2008	Active steam turbine	solar	250	Kern	CA	SCE	Antelope Substation	7/1/2014	7/1/2014				CAISO
5/30/2008	5/30/2008	Active steam turbine	solar	250	San Bernardino	CA	SCE	Eagle Mountain Substati	7/1/2014	7/1/2014				CAISO
5/30/2008	5/30/2008	Active steam turbine	solar	250	Imperial	CA	SDGE	Imperial Valley Substatic	7/1/2014	7/1/2014				CAISO
5/30/2008	5/30/2008	Active steam turbine	solar	250	Kern	CA	SCE	Kramer Substation	7/1/2014	7/1/2014				CAISO
5/30/2008	5/30/2008	Active steam turbine	solar	250	San Bernardino	CA	SCE	Mohave Switchyard	7/1/2014	7/1/2014				CAISO
5/30/2008	5/30/2008	Active steam turbine	solar	250	San Bernardino	CA	SCE	Iron Mountain Substatior	7/1/2014	7/1/2014				CAISO
5/30/2008	5/30/2008	Active steam turbine	solar	250	San Bernardino	CA	SCE	Iron Mountain Substatior	5/29/2015	5/29/2015				CAISO
5/30/2008	5/30/2008	Active steam turbine	solar	500	San Bernardino	CA	SCE	Mohave Switchyard	5/29/2015	5/29/2015				CAISO
5/30/2008	5/30/2008	Active steam turbine	solar	250	La Paz	AZ	SCE	Palo Verde-Devers #2 lir	7/1/2014	7/1/2014				CAISO
5/30/2008	5/30/2008	Active steam turbine	solar	250	Maricopa	AZ	SCE	Palo Verde-Devers #2 lir	7/1/2014	7/1/2014				CAISO
5/30/2008	5/30/2008	Active steam turbine	solar	500	Riverside	CA	SCE	Midpoint Substation	12/31/2011	12/31/2011				CAISO
5/30/2008	5/30/2008	Active steam turbine	solar	500	Kern	CA	SCE	Whirlwind Substation	12/31/2011	12/31/2011				CAISO
5/30/2008	5/30/2008	Active steam turbine	solar	125	Imperial	CA	SDGE	Imperial Valley 230kV	5/1/2013	5/1/2013				CAISO
5/30/2008	5/30/2008	Active steam turbine	solar	250	Riverside	CA	SCE	Midpoint Substation 500I	7/1/2012	7/1/2012				CAISO
5/30/2008	5/30/2008	Active steam turbine	solar	1150	San Bernardino	CA	SCE	Pisgah Substation 230k\	5/30/2013	5/30/2013				CAISO
6/2/2008	6/2/2008	Active steam turbine	solar	250	La Paz	AZ	SCE	Mohave Switchyard	7/1/2014	7/1/2014				CAISO
6/2/2008	6/2/2008	Active steam turbine	solar	84	Imperial	CA	SDGE	Imperial Valley Substatic	2/1/2011	2/1/2011				CAISO
6/2/2008	6/2/2008	Active steam turbine	solar	420	Los Angeles	CA	SCE	Whirlwind Substation 23(	10/1/2013	10/1/2013				CAISO
6/2/2008	6/2/2008	Active steam turbine	solar	840	Los Angeles	CA	SCE	Vincent Substation	9/1/2014	9/1/2014				CAISO
5/30/2008	6/2/2008	Active steam turbine	solar	230	Clark	NV	SCE	Eldorado-Ivanpah 230kV	8/1/2012	8/1/2012				CAISO
5/30/2008	6/2/2008	Active steam turbine	solar	280	Yuma	AZ	SDGE	Hassayampa-North Gila	8/1/2012	8/1/2012				CAISO
5/26/2006	5/26/2006	Active steam turbine	solar	635	San Bernardino	CA	SCE	Mohave 500 kV Switchy	12/31/2009	12/31/2010	Complete			CAISO
8/22/2006	8/22/2006	Active steam turbine	solar	250	San Bernardino	CA	SCE	Cool Water-Kramer 230k	8/1/2010	8/1/2010	Complete	In Progress		CAISO
9/25/2006	9/25/2006	Active steam turbine	solar	100	San Bernardino	CA	SCE	Loop new sub connectin	6/30/2010	6/30/2010	Complete	Complete	In Progress	CAISO
11/6/2006	11/6/2006	Active steam turbine	solar	80	San Bernardino	CA	SCE	Kramer Substation	12/31/2009	12/31/2009	Complete	In Progress		CAISO
11/6/2006	11/6/2006	Active steam turbine	solar	80	San Bernardino	CA	SCE	Kramer Substation	12/31/2009	12/31/2009	Complete	In Progress		CAISO
11/6/2006	11/6/2006	Active steam turbine	solar	320	San Bernardino	CA	SCE	Kramer Substation	12/31/2009	12/31/2009	Complete	In Progress		CAISO
11/16/2006	1/5/2007	Active steam turbine	solar	114	San Bernardino	CA	SCE	Loop new sub connectin	6/30/2010	6/30/2010	Waived	In Progress		CAISO
11/28/2006	11/30/2006	Active steam turbine	solar	500	Kern	CA	SCE	Kramer 230 kV Substion	12/31/2009	12/31/2012	Complete	In Progress		CAISO
1/16/2007	1/16/2007	Active steam turbine	solar	400	San Bernardino	CA	SCE	Pisgah 230kV Substatior	6/30/2011	6/30/2011	In Progress			CAISO
2/2/2007	2/2/2007	Active steam turbine	solar	211.6	Imperial	CA	SDGE	Imperial Valley 230kV bu	12/31/2011	12/31/2011	Complete	In Progress		CAISO
2/2/2007	2/2/2007	Active steam turbine	solar	500	Kern	CA	SCE	Substation 5 (aka Whirlw	12/31/2011	12/31/2011	In Progress			CAISO
2/15/2007	3/1/2007	Active steam turbine	solar	300	San Bernardino	CA	SCE	Julian Hinds 230kV Subs	12/31/2010	12/31/2010	In Progress			CAISO
3/19/2007	4/4/2007	Active steam turbine	solar	500	Riverside	CA	SCE	Julian Hinds 230kV Subs	12/31/2010	12/31/2010	In Progress			CAISO
4/5/2007	4/5/2007	Active steam turbine	solar	190	San Luis Obispo	CA	PGE	230kV lines near Carrizo	12/31/2010	12/31/2011	Complete	Complete		CAISO
4/20/2007	4/20/2007	Active steam turbine	solar	600	Clark	NV	SCE	El Dorado 220kV Switch	12/31/2010	12/31/2010	In Progress			CAISO
6/27/2007	6/27/2007	Active steam turbine	solar	400	Clark	NV	SCE	Ivanpah Substation 230k	6/30/2013	6/30/2013	In Progress			CAISO
6/27/2007	6/27/2007	Active steam turbine	solar	200	San Bernardino	CA	SCE	Ivanpah Substation 230k	6/30/2012	6/30/2012	Waived	In Progress		CAISO
7/12/2007	7/12/2007	Active steam turbine	solar	400	San Bernardino	CA	SCE	Pisgah Sub 230kV	6/30/2014	6/30/2014	In Progress			CAISO
7/12/2007	7/12/2007	Active steam turbine	solar	400	San Bernardino	CA	SCE	Pisgah Sub 230kV	6/30/2015	6/30/2015	In Progress			CAISO
8/23/2007	8/23/2007	Active steam turbine	solar	750	Kern	CA	SCE	Inyokern Substaion	12/28/2010	12/28/2010	In Progress	Tendered		CAISO
11/26/2007	11/26/2007	Active steam turbine	solar	565	San Bernardino	CA	SCE	Pisgah Substation 230k\	1/1/2011	1/1/2011				CAISO
12/12/2007	12/12/2007	Active steam turbine	solar	106.8	Fresno	CA	PGE	Gates Substation 230kV	3/1/2010	3/1/2010	In Progress			CAISO
12/21/2007	12/21/2007	Active steam turbine	solar	231	Kern	CA	SCE	Antelope-Magunden 230	4/1/2011	4/1/2011	In Progress			CAISO
12/27/2007	12/27/2007	Active steam turbine	solar	250	San Bernardino	CA	SCE	Ivanpah Substation 230k	6/1/2015	6/1/2015	In Progress			CAISO
12/27/2007	12/27/2007	Active steam turbine	solar	750	San Bernardino	CA	SCE	Pisgah Substation 230k\	6/1/2015	12/31/2012	In Progress			CAISO
1/15/2008	1/16/2008	Active steam turbine	solar	1000	Riverside	CA	SCE	Midpoint Substation 500I	6/1/2012	6/1/2012	Tendered			CAISO
1/17/2008	1/17/2008	Active steam turbine	solar	300	San Bernardino	CA	SCE	Pisgah Substation 220k\	12/31/2011	12/31/2011	In Progress			CAISO

1/18/2008	1/18/2008	Active	steam turbine	solar	66	Los Angeles	CA	SCE	Neenach-Bailey 66kV lin	12/1/2009	12/1/2009	Waived	Tendered				CAISO
1/23/2008	1/23/2008	Active	steam turbine	solar	140	Clark	NV	SCE	El Dorado 220kV switch	11/1/2011	11/1/2011	Tendered					CAISO
3/31/2008	3/31/2008	Active	steam turbine	solar	231	Kern	CA	SCE	Windhub Substation	5/1/2010	5/1/2010						CAISO
3/31/2008	3/31/2008	Active	steam turbine	solar	264	Kern	CA	SCE	Whirlwind Substation 23	8/1/2012	8/1/2012						CAISO
3/31/2008	3/31/2008	Active	steam turbine	solar	264	Kern	CA	SCE	Windhub Substation	9/1/2011	9/1/2011						CAISO
3/31/2008	3/31/2008	Active	steam turbine	solar	33	Los Angeles	CA	SCE	Antelope-Calcement 66k	12/1/2009	12/1/2009						CAISO
3/31/2008	3/31/2008	Active	steam turbine	solar	33	San Bernardino	CA	SCE	Cool Water-Kramer 115k	7/1/2009	7/1/2009						CAISO
4/2/2008	4/18/2008	Active	steam turbine	solar	49.5	San Diego	CA	SDGE	Borrego Substation 69kV	4/1/2011	4/1/2011						CAISO
5/2/2008	5/2/2008	Active	steam turbine	solar	200	Riverside	CA	SCE	Blythe-Eagle Mountain 1	8/30/2012	8/30/2012						CAISO
5/2/2008	5/2/2008	Active	steam turbine	solar	300	Riverside	CA	SCE	Midpoint Substation	8/30/2012	8/30/2012						CAISO
5/6/2008	5/12/2008	Active	steam turbine	solar	750	Riverside	CA	SCE	Midpoint Substation	12/28/2013	12/28/2013						CAISO
1/3/2003	1/3/2003	Active	hydro	water	40	San Diego	CA	SDGE	Escondido	7/1/2007	9/1/2008	NA	Complete	Complete		IFA Executed,	CAISO
4/26/2005	6/21/2005	Active	hydro	water	500	Riverside	CA	SCE/SDGE	Proposed Lee Lake Sub	12/31/2008	12/31/2008	NA	Complete	Complete		In Progress	CAISO
11/30/2007	11/30/2007	Active	hydro	water	40	Mendocino	CA	PGE	Fort Bragg Substation 60	6/1/2012	6/1/2012	In Progress					CAISO
5/16/2008	5/16/2008	Active	hydro	water	1300	Riverside	CA	SCE	Midpoint Substation 500	6/1/2014	6/1/2014						CAISO
5/30/2008	5/30/2008	Active	wind turbine	wind	130	San Diego	CA	SDGE	Boulevard Substation	6/1/2011	6/1/2011						CAISO
5/30/2008	5/30/2008	Active	wind turbine	wind	205	Kern	CA	SCE	Highwind Substation 230	10/1/2011	10/1/2011						CAISO
5/30/2008	5/30/2008	Active	wind turbine	wind	36	Contra Costa	CA	PGE	Pittsburg-Tesla 230kV lir	9/30/2010	9/30/2010						CAISO
5/30/2008	5/30/2008	Active	wind turbine	wind	350	Shasta	CA	PGE	Pit #3-Round Mountain 2	6/1/2011	6/1/2011						CAISO
5/30/2008	5/30/2008	Active	wind turbine	wind	500	Kern	CA	SCE	Windhub Substation	12/31/2011	12/31/2011						CAISO
5/30/2008	5/30/2008	Active	wind turbine	wind	1150	Los Angeles & K	CA	SCE	Whirlwind Substation 23	5/30/2013	5/30/2013						CAISO
9/30/1998	9/30/1998	Active	wind turbine	wind	16.5	Riverside	CA	SCE	Devers-Garnet 115 kV lir	3/1/1999	12/31/2010	NA	Complete	Complete			CAISO
10/14/2002	10/23/2002	Active	wind turbine	wind	63	San Bernardino	CA	SCE	Mountain Pass Substatic	12/1/2004	3/1/2008	NA	Complete	Complete		IFA Executed	CAISO
3/11/2003	3/11/2003	Active	wind turbine	wind	120	Santa Barbara	CA	PGE	Cabrillo	6/1/2006	10/1/2008	NA	Complete	Complete		GSFA Execut	CAISO
8/19/2003	9/4/2003	Active	wind turbine	wind	300	Kern	CA	SCE	Antelope	12/31/2006	12/31/2008	NA	udy Complete	Complete			CAISO
11/18/2003	11/18/2003	Active	wind turbine	wind	38	Solano	CA	PGE	New Birds Lndng Sw Sta	6/30/2005	12/31/2011	NA	Complete	Complete		GSFA Execut	CAISO
1/30/2004	1/30/2004	Active	wind turbine	wind	150	Solano	CA	PGE	High Winds/Contra Cost	12/31/2006	11/28/2008	NA	Complete	Complete		GSFA Execut	CAISO
3/8/2004	3/29/2004	Active	wind turbine	wind	201	Lake & Sonoma	CA	PGE	Collector Substation at G	12/1/2006	7/1/2009	NA	Complete	ly in Progress		In Progress	CAISO
5/12/2004	5/24/2004	Active	wind turbine	wind	201	San Diego	CA	SDGE	Boulevard - Crestwood 6	9/1/2007	12/1/2008	NA	Complete	In Progress			CAISO
11/11/2004	11/11/2004	Active	wind turbine	wind	200	Solano	CA	PGE	New Birds Lndng Sw Sta	12/31/2008	12/22/2009	NA	Complete	Complete		Executed	CAISO
12/14/2004	12/14/2004	Active	wind turbine	wind	100.5	Riverside	CA	SCE	Devers Substation	12/1/2006	1/1/2008	NA	dy In Progress				CAISO
5/24/2005	9/7/2005	Active	wind turbine	wind	51	Kern	CA	SCE	Proposed "New" Dutchw	6/1/2006	5/31/2009	Complete	Complete	In Progress			CAISO
6/6/2005	6/27/2005	Active	wind turbine	wind	250	Kern	CA	SCE	Antelope Sub	12/31/2007	12/31/2008	NA	Complete	In Progress			CAISO
7/12/2005	7/12/2005	Active	wind turbine	wind	102	Shasta	CA	PGE	230kV line btn Pit#3 & R	12/15/2007	9/30/2009	Complete	Complete	udy Complete		Executed	CAISO
9/16/2005	9/16/2005	Active	wind turbine	wind	60	San Bernardino	CA	SCE	Lugo-Pisgah No. 2 230 k	12/31/2008	6/1/2010	Complete	Complete		Tendered		CAISO
11/22/2005	12/1/2005	Active	wind turbine	wind	340	Kern	CA	SCE	Cottonwind Substation	12/31/2009	12/31/2009	NA	Complete	In Progress			CAISO
1/20/2006	1/20/2006	Active	wind turbine	wind	33.1	Kern	CA	SCE	Vincent Substation	1/1/2008	10/1/2009	NA	Complete	In Progress			CAISO
1/20/2006	1/20/2006	Active	wind turbine	wind	34	Kern	CA	SCE	Canwind Substation	1/1/2008	10/1/2009	NA	Complete	In Progress			CAISO
2/22/2006	2/22/2006	Active	wind turbine	wind	51	Kern	CA	SCE	Segment 3 of Antelope T	3/31/2010	3/31/2010	NA	Complete	In Progress			CAISO
3/1/2006	3/1/2006	Active	wind turbine	wind	160	Kern	CA	SCE	Tehachapi Conceptual S	12/31/2009	12/31/2009	NA	Complete	In Progress			CAISO
3/1/2006	3/1/2006	Active	wind turbine	wind	180	Kern	CA	SCE	Tehachapi Conceptual S	12/31/2008	12/31/2008	NA	Complete	In Progress			CAISO
3/1/2006	3/1/2006	Active	wind turbine	wind	220	Kern	CA	SCE	Tehachapi Conceptual S	12/31/2008	12/31/2008	NA	Complete	In Progress			CAISO
3/1/2006	3/1/2006	Active	wind turbine	wind	550	Kern	CA	SCE	Tehachapi Conceptual S	12/31/2009	12/31/2009	NA	Complete	In Progress			CAISO
3/1/2006	3/1/2006	Active	wind turbine	wind	600	Kern	CA	SCE	Tehachapi Conceptual S	12/31/2009	12/31/2009	NA	Complete	In Progress			CAISO
4/5/2006	4/5/2006	Active	wind turbine	wind	120	Kern	CA	SCE	Vincent Substation throu	12/31/2007	12/31/2009	NA	Complete	In Progress			CAISO
5/1/2006	6/6/2006	Active	wind turbine	wind	160	San Diego	CA	SDGE	500 kV Imperial Valley-M	6/30/2008	6/30/2008	Complete	Complete	In Progress			CAISO
6/9/2006	6/9/2006	Active	wind turbine	wind	128	Solano	CA	PGE	Lambie-Contra Costa 23	3/1/2011	3/1/2011	Complete	Complete	In Progress	Complete		CAISO
6/28/2006	6/28/2006	Active	wind turbine	wind	300	San Diego	CA	SDGE	500 kV Imperial Valley-M	10/31/2008	10/31/2008	Complete	Complete	In Progress			CAISO
6/29/2006	7/12/2006	Active	wind turbine	wind	50	San Bernardino	CA	SCE	Lugo-Pisgah 230kV line	7/1/2008	7/1/2008	Complete	In Progress				CAISO
6/29/2006	7/12/2006	Active	wind turbine	wind	150	San Bernardino	CA	SCE	Victor 230 kV	7/1/2008	7/1/2008	Complete	In Progress				CAISO
6/29/2006	7/12/2006	Active	wind turbine	wind	150	San Bernardino	CA	SCE	Lugo-Pisgah 230kV line	7/1/2008	7/1/2008	Complete	In Progress				CAISO
6/29/2006	6/30/2006	Active	wind turbine	wind	30	Solano	CA	PGE	Birds Landing	4/1/2009	4/1/2009	Complete	Complete	Waived		In Progress	CAISO
8/8/2006	8/8/2006	Active	wind turbine	wind	500	Kern	CA	SCE	Windhub Substation 230	12/31/2010	12/31/2010	Complete	Tendered				CAISO
8/31/2006	8/31/2006	Active	wind turbine	wind	1500	Clark	NV	SCE	Eldorado Substation	12/31/2011	12/31/2011	Complete	In Progress				CAISO
9/27/2006	9/27/2006	Active	wind turbine	wind	297	Kern	CA	SCE	SCE 230kV Conceptual	12/31/2009	12/31/2009	In Progress					CAISO
10/10/2006	10/10/2006	Active	wind turbine	wind	60	San Bernardino	CA	SCE	Lugo-Pisgah 230kV line	9/30/2008	9/30/2008	Complete	Complete	Tendered			CAISO
10/23/2006	10/23/2006	Active	wind turbine	wind	150	Riverside	CA	SCE	Devers-Vista 230kV #1	12/31/2008	12/31/2008	Waived	Complete	In Progress			CAISO
11/16/2006	11/16/2006	Active	wind turbine	wind	362	Kern	CA	SCE	SCE Highwind Sub #2 (p	12/31/2009	12/31/2009	In Progress					CAISO
11/22/2006	11/22/2006	Active	wind turbine	wind	100	Kern	CA	SCE	66kV Antelope-Neenach	5/30/2008	5/30/2008	In Progress					CAISO
11/22/2006	11/22/2006	Active	wind turbine	wind	105	Santa Barbara	CA	PGE	No. 1 & No. 2 Mesa-Divi	12/31/2009	12/31/2009	Complete	In Progress				CAISO
12/5/2006	12/5/2006	Active	wind turbine	wind	201	San Bernardino	CA	SCE	Lugo-Pisgah 230kV line	3/1/2009	3/1/2009	In Progress					CAISO
12/6/2006	12/22/2006	Active	wind turbine	wind	400	La Rumorosa, B	Mexico	SDGE	500kV Imperial Valley-M	6/1/2009	6/1/2009	Complete	In Progress				CAISO
12/15/2006	12/15/2006	Active	wind turbine	wind	100	Kern	CA	SCE	66kV Rosamond-Antelop	5/30/2008	5/30/2008	In Progress					CAISO
12/15/2006	12/15/2006	Active	wind turbine	wind	100	Kern	CA	SCE	66kV Rosamond-Delsur	5/30/2008	5/30/2008	In Progress					CAISO
12/15/2006	12/15/2006	Active	wind turbine	wind	100	Kern	CA	SCE	66kV Antelope-Neenach	5/30/2008	5/30/2008	In Progress					CAISO
1/12/2007	1/12/2007	Active	wind turbine	wind	1000	La Rumorosa, B	Mexico	SDGE	Imperial Valley 230kV sv	10/1/2010	10/1/2010	Complete	In Progress				CAISO
2/2/2007	2/2/2007	Active	wind turbine	wind	1000	La Rumorosa, B	Mexico	SDGE	Imperial Valley 500kV bu	12/31/2011	12/31/2011	Complete	In Progress				CAISO
2/9/2007	2/9/2007	Active	wind turbine	wind	500	Solano	CA	PGE	Vaca-Tesla 500kV line	12/31/2011	12/31/2011	In Progress					CAISO
2/21/2007	2/21/2007	Active	wind turbine	wind	500	Kern	CA	SCE	SCE Proposed Whirlwind	9/30/2008	9/30/2008	In Progress					CAISO
2/27/2007	2/28/2007	Active	wind turbine	wind	100	Contra Costa	CA	PGE	Bahia – Moraga 230 kV l	12/31/2011	12/31/2011	Complete	In Progress				CAISO

2/27/2007	2/28/2007	Active	wind turbine	wind	500		Mexicali/Ensena	Mexico	SDGE	Miguel 230kV Bus	6/15/2010	7/1/2011	Complete	In Progress			CAISO
2/27/2007	2/28/2007	Active	wind turbine	wind	500		Mexicali/Ensena	Mexico	SDGE	Imperial Valley 230kV S	6/15/2010	6/15/2010	Complete	In Progress			CAISO
3/5/2007	3/5/2007	Active	wind turbine	wind	300		La Rumorosa, B	Mexico	SDGE	500kV Imperial Valley-M	11/1/2009	11/1/2009	In Progress	Tendered			CAISO
3/23/2007	3/23/2007	Active	wind turbine	wind	200		Kern	CA	SCE	Windhub Substation	12/15/2013	12/15/2013	In Progress				CAISO
4/19/2007	4/19/2007	Active	wind turbine	wind	149.4		San Bernardino	CA	SCE	Tortilla-Kramer 115 kV li	11/15/2013	11/15/2013	In Progress				CAISO
4/19/2007	4/19/2007	Active	wind turbine	wind	198.65		San Bernardino	CA	SCE	Cool Water-Kramer #1 2	11/15/2013	11/15/2013	In Progress				CAISO
4/19/2007	4/19/2007	Active	wind turbine	wind	198.65		San Bernardino	CA	SCE	Cool Water-SEGS2-Tort	11/15/2013	11/15/2013	In Progress				CAISO
4/23/2007	5/4/2007	Active	wind turbine	wind	201		Lassen	CA	PGE	Caribou 230kV Substatic	10/31/2008	10/31/2008	Complete	Tendered			CAISO
5/2/2007	5/3/2007	Active	wind turbine	wind	400		La Rumorosa, B	Mexico	SDGE	New 230/500kV substati	12/31/2010	12/31/2010	In Progress	In Progress			CAISO
5/9/2007	5/9/2007	Active	wind turbine	wind	50		Humboldt	CA	PGE	Bridgeville Substation	10/30/2010	10/30/2010	Complete	In Progress			CAISO
5/9/2007	5/9/2007	Active	wind turbine	wind	180		San Bernardino	CA	SCE	Coolwater 220kV bus	11/15/2010	11/15/2010	In Progress				CAISO
5/10/2007	5/10/2007	Active	wind turbine	wind	49.25		San Bernardino	CA	SCE	Coolwater-Kramer 115 k	12/15/2013	12/15/2013	In Progress				CAISO
5/21/2007	5/21/2007	Active	wind turbine	wind	420		La Rumorosa, B	Mexico	SDGE	Imperial Valley-Miguel 5(	5/1/2011	5/1/2011	Complete	Tendered			CAISO
5/23/2007	5/23/2007	Active	wind turbine	wind	60		Solano	CA	PGE	Birds Landing Substatior	12/31/2010	12/31/2010	Complete	In Progress			CAISO
6/13/2007	6/25/2007	Active	wind turbine	wind	50		Riverside	CA	SCE	Venwind portion of Deve	12/1/2009	12/1/2009	In Progress				CAISO
7/16/2007	7/16/2007	Active	wind turbine	wind	120		Kern and Inyo	CA	SCE	Control-Haiwee-Inyokerr	12/15/2010	12/15/2010	In Progress				CAISO
7/16/2007	7/16/2007	Active	wind turbine	wind	228		Riverside	CA	SCE	Devers-Mirage-Julian Hi	12/15/2010	12/15/2010	In Progress				CAISO
7/16/2007	7/16/2007	Active	wind turbine	wind	429		San Bernardino	CA	SCE	Pisgah 230kV Substatior	12/30/2010	12/30/2010	In Progress				CAISO
7/17/2007	7/17/2007	Active	wind turbine	wind	120		Kern	CA	SCE	Kramer-Inyokern-Randsl	12/15/2010	12/15/2010	In Progress				CAISO
7/30/2007	7/30/2007	Active	wind turbine	wind	140		Lake and Colusa	CA	PGE	Redbud-Cortina 115kV li	8/1/2009	10/1/2010	Complete	In Progress			CAISO
7/30/2007	7/30/2007	Active	wind turbine	wind	105		Monterey	CA	PGE	Moss-Linding-Salinas-Sc	2/1/2010	11/1/2010	Complete	In Progress			CAISO
8/13/2007	8/13/2007	Active	wind turbine	wind	40		Santa Barbara	CA	PGE	Cabrillo Substation 115k	12/31/2011	12/31/2011	dy In Progress				CAISO
10/15/2007	10/15/2007	Active	wind turbine	wind	300		San Bernardino	CA	SCE	Lugo-Mohave 500kV line	12/30/2010	12/30/2010	In Progress				CAISO
12/13/2007	12/13/2007	Active	wind turbine	wind	150		San Bernardino	CA	SCE	Pisgah Substation 230kV	12/31/2011	12/31/2011	In Progress				CAISO
2/27/2008	2/27/2008	Active	wind turbine	wind	500		Baja California	Mexico	SDGE	Imperial Valley -Miguel 5	12/31/2011	12/31/2011	Tendered				CAISO
3/18/2008	3/18/2008	Active	wind turbine	wind	598.2		Plumas	CA	PGE	Belden Substation 230kV	12/15/2013	12/15/2013					CAISO
5/17/2006			biomass	biomass	15.5		Imperial	CA	IID	J 92 kV Line	3/1/2008						IID OASIS
4/25/2008			biomass	biomass	49.3		Imperial	CA	IID	EO 92 kV Line	2/1/2011						IID OASIS
5/5/2005			geothermal	geothermal	25		Imperial	CA	IID	L 161 kV Line	6/1/2010						IID OASIS
2/10/2006			geothermal	geothermal	45		Imperial	CA	IID	L 161 kV Line	7/1/2010						IID OASIS
12/13/2006			geothermal	geothermal	50		Imperial	CA	IID	CO 92 kV Line	10/1/2008						IID OASIS
12/13/2006			geothermal	geothermal	50		Imperial	CA	IID	CO 92 kV Line	10/1/2009						IID OASIS
12/31/2006			geothermal	geothermal	49.9		Imperial	CA	IID	Midway Substation	9/1/2009						IID OASIS
12/31/2006			geothermal	geothermal	49.9		Imperial	CA	IID	Midway Substation	9/1/2010						IID OASIS
2/27/2007			geothermal	geothermal	15		Imperial	CA	IID	HL-1 92 kV Line	4/1/2008						IID OASIS
8/13/2007			geothermal	geothermal	20		Imperial	CA	IID	L 161 kV Line	12/1/2010						IID OASIS
8/14/2007			geothermal	geothermal	49.6		Imperial	CA	IID	L 161 kV Line	6/1/2010						IID OASIS
4/20/2007			steam turbine	solar	49.4		Imperial	CA	IID	Imperial Valley Substatic	3/1/2010						IID OASIS
5/4/2007			steam turbine	solar	225		Imperial	CA	IID	Midway Substation	9/1/2009						IID OASIS
8/2/2007			steam turbine	solar	77		Imperial	CA	IID	Midway Substation	1/1/2010						IID OASIS
9/11/2007			steam turbine	solar	50		Imperial	CA	IID	B 92 kV Line	12/1/2008						IID OASIS
3/24/2008			steam turbine	solar	250		Imperial	CA	IID	Highline Substation	9/1/2012						IID OASIS
5/5/2008			steam turbine	solar	100		Imperial	CA	IID	Dixieland Substation	5/1/2011						IID OASIS
5/5/2008			steam turbine	solar	100		Riverside	CA	IID	Mecca Substation	5/1/2011						IID OASIS
12/3/2008			steam turbine	solar	500		Imperial	CA	IID	L 161 kV Line	12/1/2009						IID OASIS
5/5/2006			wind turbine	wind	115.5		Imperial	CA	IID	Plaster City Substation	12/1/2008						IID OASIS
7/21/2005			combined cycle		80		Imperial	CA	IID	El Centro Switching Stat	6/1/2010						IID OASIS
9/26/2007			combined cycle		216		Imperial	CA	IID	Midway Substation	12/1/2010						IID OASIS
3/2/2007			gas turbine		46		Imperial	CA	IID	J 92 kV Line	4/1/2008						IID OASIS
9/26/2007			gas turbine		49.5		Imperial	CA	IID	Midway Substation	7/1/2009						IID OASIS
2/14/2007				natural gas	470	470	Los Angeles	CA	LADWP	Wilmington 138kV Subst	9/1/2012					request being	ISO
10/10/2007				natural gas	634	634	Clark	NV	LADWP	(J) McCullough 230kV S	5/1/2011					Scoping Meet	ISO
4/9/2007				solar	250	250	San Bernardino	CA	LADWP	(M) Marketplace-Adelant	1/8/2010					SIS Agreemer	ISO
6/12/2007				solar	200	200	Clark	NV	LADWP	Mead-Victorville 287kV L	7/1/2013					Scoping Meet	ISO
9/10/2007				solar	250	250	Kern	CA	LADWP	Barren Ridge 230kV Sub	6/1/2011					request being	ISO
11/2/2007				solar	165	170	Inyo	CA	LADWP	Owerns Gorge - Rinaldi :	12/1/2010					Scoping Meet	ISO
2/20/2008				solar	110	110	Clark	NV	LADWP	Mead-Victorville 287kV L	10/1/2011					Scoping Meet	ISO
2/20/2008				solar	110	110	Clark	NV	LADWP	Mead-Victorville 287kV L	10/1/2012					Scoping Meet	ISO
3/12/2008				solar	350	350	San Bernardino	CA	LADWP	(M) Marketplace-Adelant	2/1/2011					request being	ISO
5/19/2008				solar	640	640	Clark	NV	LADWP	McCullough-Victorville 5(	5/1/2013					request being	ISO
5/19/2008				solar	320	320	San Bernardino	CA	LADWP	(M) Marketplace-Adelant	5/1/2013					request being	ISO
12/11/2007				solar	165	170	Inyo	CA	LADWP	Owerns Gorge - Rinaldi :	12/1/2014					request being	ISO
12/11/2007				solar	245	250	Inyo	CA	LADWP	Owerns Gorge - Rinaldi :	12/1/2012					request being	ISO
1/14/2008				solar	320	320	Clark	NV	LADWP	(J) McCullough 230kV S	5/1/2011					Scoping Meet	ISO
1/31/2006				wind	150	150	Kern	CA	LADWP	Pine Tree 230kV Substa	10/1/2009					SIS Complete	ISO
8/13/2007				wind	25.5	25.5	Kern	CA	LADWP	Pine Tree 230kV Substa	10/1/2009					request being	ISO
9/19/2007				wind	50	50	San Bernardino	CA	LADWP	Mead-Victorville 287kV L	12/1/2011					No response t	ISO
9/19/2007				wind	150	150	San Bernardino	CA	LADWP	Mead-Victorville 287kV L	12/1/2010					No response t	ISO
10/10/2007				wind	201	201	Inyo	CA	LADWP	Owerns Gorge - Rinaldi :	12/1/2010					request being	ISO
1/8/2008				wind	130	130	San Bernardino	CA	LADWP	Mead-Victorville 287kV L	8/1/2010					request being	ISO

3/2/2007			wind	200	200	Beaver Cty	Utah	LADWP	(I) IPP 345kV Switchyarc	1/1/2009			request being	ISO
3/2/2007			wind	200	200	Beaver Cty	Utah	LADWP	(I) IPP 345kV Switchyarc	3/8/2009			request being	ISO
3/2/2007			wind	200	200	Beaver Cty	Utah	LADWP	(I) IPP 345kV Switchyarc	7/8/2009			request being	ISO
12/9/2005			wind	200	200	Beaver Cty	Utah	LADWP	(I) IPP 345kV Switchyarc	12/1/2008			SIS and Facili	ISO
12/9/2005			wind	200	200	Beaver Cty	Utah	LADWP	(I) IPP 345kV Switchyarc	7/1/2008			SIS and Facili	ISO
2/11/2008		wind turbine	wind	150	150	Mohave	CA	LADWP	Pine Tree 230kV Substation					LADWP OASIS
2/25/2008		wind turbine	wind	300	300	Mohave	CA	LADWP	Barren Ridge - Castaic 230kV Line					LADWP OASIS
			natural gas											Nevada Power Company Interconnection
10/12/2006	7/23/2008	gas		150		Clark	NV	NPC	Saguaro 138kV line	5/1/2008				Requests
			natural gas											Nevada Power Company Interconnection
6/13/2008	7/23/2008	gas		150		Clark	NV	NPC	Saguaro 138kV line	5/1/2011				Requests
			solar											Nevada Power Company Interconnection
11/26/2007	7/23/2008	steam turbine		166		Clark	NV	NPC	HA 230kV Sub	12/1/2010				Requests
			solar											Nevada Power Company Interconnection
11/26/2007	7/23/2008	steam turbine		312		Clark	NV	NPC	Northwest Sub	12/1/2010				Requests
			solar											Nevada Power Company Interconnection
5/21/2008	7/23/2008	steam turbine		240		Clark	NV	NPC	Bighorn Sub	5/1/2013				Requests
			solar											Nevada Power Company Interconnection
7/21/2008	7/23/2008	steam turbine		175		Nye	NV	NPC	Mercury Switching Static	5/1/2011				Requests
			solar											Nevada Power Company Interconnection
7/23/2008	7/23/2008	steam turbine		140		Clark	NV	NPC	Merchant 230kV Sub	9/30/2009				Requests
														Nevada Power Company Interconnection
5/22/2006	7/23/2008	coal		700		Lincoln	NV	NPC	Red Butte-HA 345	11/1/2011				Requests
9/28/2006		gas turbine	natural gas	180	180	Mohave	AZ		Griffith Switchyard 230 k	6/1/2008			In progress	WALC OASIS
4/7/2006		wind turbine	wind	500	500	Coconino	AZ		Tap on 345kV Glen Can	12/31/2008		Complete	In progress	WALC OASIS
11/6/2006		wind turbine	wind	300	300	Clark	NV		Mead - Davis 230 kV Lin	12/31/2009				WALC OASIS
12/7/2006		wind turbine	wind	65.1	65.1	Imperial	CA		Goldmine Tap Substatio	12/31/2008				WALC OASIS
3/12/2007		wind turbine	wind	500	500	Mohave	AZ		Peacock Substation	12/31/2008				WALC OASIS
			biomass	22		Navajo	AZ	APS	Cholla zeniff					
5/7/2008	5/12/2018	Active reciprocating e	natural gas	115.5		Alameda	CA	PGE	Kelso Substation	6/1/2012	6/1/2012			
			solar	110		Maricopa	AZ	APS	Panda Liberty line					
			wind	125		Coconino	AZ	APS	cholla - show					
			wind	128		Coconino	AZ	APS	Cholla Show					
			wind	500		Coconino	AZ	WAPA	Tap on 345kV Glen Canyon-Pinnacle Peak					
			wind	65.1		Imperial	AZ	WAPA	Goldmine Tap Substation					
			wind	15		Mohave	AZ	TEP	Dolan Springs Sub					
			wind	15		Mohave	AZ	TEP	Dolan Springs Sub					
			wind	300		Mohave	AZ	WAPA	Mead - Davis 230 kV Line					
			wind	500		Mohave	AZ	WAPA	Peacock Substation					
			wind	150		Navajo	AZ	SRP	CO-CH, CO-SK 500 kV					
			wind	95		St Johns	AZ	TEP	Co-Spr					

Appendix D. Solar Photovoltaic Resources

				Base Case **One-Axis Tracking Crystalline Solar PV**					**Sensitivity Case** **20 Degree Fixed Tilt Thin Film Solar PV**						
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
443486	CA		20	26.0%	45.6	$7,078	$35	$206	23.4%	40.9	$3,778	$20	$123	37.77631	-121.73592
117991	CA		20	24.7%	43.3	$7,103	$35	$217	22.0%	38.6	$3,803	$20	$131	34.14531	-117.6905
568309	CA		20	23.5%	41.2	$7,055	$35	$227	20.6%	36.1	$3,755	$20	$139	39.09163	-121.58164
99944	CA		20	24.6%	43.1	$7,086	$35	$218	21.9%	38.4	$3,786	$20	$131	34.44787	-119.97034
65609	CA		20	24.1%	42.1	$7,049	$35	$222	21.4%	37.5	$3,749	$20	$133	33.98341	-117.79335
19543	CA		20	27.0%	47.3	$7,045	$35	$198	24.1%	42.2	$3,745	$20	$118	32.69901	-115.03356
19475	CA		20	27.4%	48.0	$7,048	$35	$195	24.4%	42.8	$3,748	$20	$117	32.69901	-115.04213
532103	CA		20	23.5%	41.2	$7,055	$35	$227	20.6%	36.0	$3,755	$20	$139	38.73123	-121.43594
644349	CA		20	24.2%	42.4	$7,062	$35	$221	21.6%	37.8	$3,762	$20	$133	40.77726	-124.19574
600363	CA		20	24.2%	42.4	$7,069	$35	$221	21.5%	37.6	$3,769	$20	$134	39.51708	-121.24738
600110	CA		20	24.0%	42.1	$7,069	$35	$223	21.2%	37.2	$3,769	$20	$135	39.50918	-121.28167
169433	CA		20	27.3%	47.8	$7,043	$35	$195	24.4%	42.8	$3,743	$20	$117	34.81834	-118.17047
402988	CA		20	24.3%	42.6	$7,063	$35	$220	21.2%	37.2	$3,763	$20	$135	37.25366	-121.07597
403515	CA		20	24.4%	42.8	$7,047	$35	$218	21.3%	37.4	$3,747	$20	$134	37.30729	-121.0074
485310	CA		20	23.0%	40.3	$7,107	$35	$234	20.3%	35.5	$3,807	$20	$143	38.16298	-122.19874
523755	CA		20	23.6%	41.4	$7,092	$35	$227	20.7%	36.3	$3,792	$20	$139	38.51274	-122.55014
359144	CA		20	22.3%	39.1	$7,049	$35	$239	19.9%	34.9	$3,749	$20	$143	36.8488	-120.79313
122800	CA		20	27.6%	48.3	$7,137	$35	$196	24.6%	43.2	$3,837	$20	$118	34.00546	-117.08198
109807	CA		20	25.1%	44.0	$7,055	$35	$213	22.4%	39.2	$3,755	$20	$128	34.47005	-118.72757
213166	CA		20	24.8%	43.4	$7,043	$35	$215	21.7%	38.0	$3,743	$20	$131	35.18302	-119.57608
601059	CA		20	23.3%	40.8	$7,073	$35	$230	20.5%	36.0	$3,773	$20	$140	39.5408	-121.1531
601058	CA		20	23.3%	40.8	$7,077	$35	$230	20.5%	36.0	$3,777	$20	$140	39.53289	-121.1531
444847	CA		20	26.2%	46.0	$7,085	$35	$204	23.6%	41.4	$3,785	$20	$122	37.74546	-121.55593
579170	CA		20	23.3%	40.9	$7,066	$35	$229	20.5%	36.0	$3,766	$20	$139	39.446	-120.13318
213956	CA		20	25.0%	43.9	$7,044	$35	$213	22.0%	38.5	$3,744	$20	$130	35.07866	-119.47323
213367	CA		20	24.8%	43.4	$7,052	$35	$215	21.7%	38.0	$3,752	$20	$132	35.18302	-119.55037
442422	CA	Alameda	20	24.8%	43.5	$7,120	$35	$217	21.8%	38.2	$3,820	$20	$133	37.59142	-121.87305
442689	CA	Alameda	20	24.5%	42.9	$7,137	$35	$220	21.4%	37.5	$3,837	$20	$136	37.6453	-121.83877
442485	CA	Alameda	20	24.4%	42.7	$7,110	$35	$221	21.3%	37.4	$3,810	$20	$136	37.57604	-121.86448
442824	CA	Alameda	20	24.5%	42.9	$7,050	$35	$218	21.4%	37.5	$3,750	$20	$133	37.68381	-121.82163
442631	CA	Alameda	20	24.4%	42.7	$7,067	$35	$219	21.3%	37.4	$3,767	$20	$134	37.69922	-121.84734
442421	CA	Alameda	20	24.8%	43.5	$7,043	$35	$215	21.8%	38.2	$3,743	$20	$131	37.58373	-121.87305
443282	CA	Alameda	20	25.8%	45.1	$7,094	$35	$208	23.1%	40.5	$3,794	$20	$125	37.70692	-121.76163
443143	CA	Alameda	20	25.3%	44.4	$7,096	$35	$212	22.7%	39.7	$3,796	$20	$127	37.6376	-121.77877
443351	CA	Alameda	20	26.0%	45.6	$7,076	$35	$206	23.4%	40.9	$3,776	$20	$123	37.73775	-121.75306
495262	CA	Amador	20	23.5%	41.2	$7,066	$35	$227	20.5%	35.9	$3,766	$20	$140	38.41152	-120.87027
494347	CA	Amador	20	23.5%	41.2	$7,073	$35	$228	20.5%	35.9	$3,773	$20	$140	38.26384	-120.99026
494746	CA	Amador	20	23.5%	41.2	$7,047	$35	$227	20.5%	36.0	$3,747	$20	$139	38.38041	-120.93884
494539	CA	Amador	20	23.5%	41.2	$7,045	$35	$227	20.5%	35.9	$3,745	$20	$139	38.26384	-120.96455
497633	CA	Amador	20	23.6%	41.3	$7,059	$35	$226	20.7%	36.3	$3,759	$20	$138	38.43487	-120.55315
495956	CA	Amador	20	23.5%	41.2	$7,067	$35	$227	20.5%	36.0	$3,767	$20	$140	38.33376	-120.77599
495336	CA	Amador	20	23.6%	41.3	$7,057	$35	$226	20.6%	36.1	$3,757	$20	$139	38.48937	-120.8617
494555	CA	Amador	20	23.5%	41.2	$7,042	$35	$227	20.5%	36.0	$3,742	$20	$139	38.38818	-120.96455
495307	CA	Amador	20	23.6%	41.3	$7,051	$35	$226	20.6%	36.1	$3,751	$20	$139	38.26384	-120.8617
497064	CA	Amador	20	23.7%	41.6	$7,068	$35	$225	20.8%	36.4	$3,768	$20	$138	38.48937	-120.63029
595423	CA	Butte	20	24.1%	42.3	$7,043	$35	$221	21.4%	37.5	$3,743	$20	$133	39.81011	-121.92448
569754	CA	Butte	20	23.7%	41.4	$7,046	$35	$225	20.8%	36.4	$3,746	$20	$137	39.38287	-121.39309
598305	CA	Butte	20	23.3%	40.9	$7,061	$35	$229	20.5%	35.9	$3,761	$20	$140	39.68324	-121.53022
598372	CA	Butte	20	23.3%	40.9	$7,071	$35	$229	20.5%	35.9	$3,771	$20	$140	39.71494	-121.52165
597217	CA	Butte	20	22.8%	39.9	$7,042	$35	$234	20.0%	35.0	$3,742	$20	$143	39.5487	-121.67592
596102	CA	Butte	20	24.6%	43.1	$7,053	$35	$217	21.8%	38.2	$3,753	$20	$131	39.69909	-121.8302
596227	CA	Butte	20	24.9%	43.7	$7,055	$35	$214	22.2%	38.9	$3,755	$20	$129	39.69116	-121.81306
597889	CA	Butte	20	23.2%	40.7	$7,053	$35	$230	20.5%	35.9	$3,753	$20	$140	39.88157	-121.59022
595477	CA	Butte	20	24.3%	42.6	$7,058	$35	$220	21.6%	37.8	$3,758	$20	$133	39.73872	-121.9159
567643	CA	Butte	20	23.6%	41.3	$7,043	$35	$226	20.7%	36.3	$3,743	$20	$137	39.39075	-121.67592
597612	CA	Butte	20	23.3%	40.8	$7,047	$35	$229	20.4%	35.8	$3,747	$20	$140	39.68324	-121.6245
597669	CA	Butte	20	23.1%	40.5	$7,051	$35	$231	20.3%	35.6	$3,751	$20	$140	39.63573	-121.61593
598704	CA	Butte	20	23.3%	40.9	$7,080	$35	$230	20.5%	35.9	$3,780	$20	$140	39.8498	-121.4788
597829	CA	Butte	20	23.2%	40.7	$7,061	$35	$230	20.5%	35.9	$3,761	$20	$140	39.90541	-121.59879
596660	CA	Butte	20	24.9%	43.6	$7,041	$35	$214	22.1%	38.8	$3,741	$20	$129	39.62781	-121.75306
599492	CA	Butte	20	24.0%	42.1	$7,079	$35	$223	21.2%	37.2	$3,779	$20	$135	39.60407	-121.36737
599429	CA	Butte	20	24.0%	42.1	$7,083	$35	$223	21.2%	37.2	$3,783	$20	$135	39.60407	-121.37595
598479	CA	Butte	20	23.3%	40.9	$7,064	$35	$229	20.5%	36.0	$3,764	$20	$139	39.56452	-121.50451
598246	CA	Butte	20	23.3%	40.9	$7,057	$35	$229	20.5%	36.0	$3,757	$20	$139	39.71494	-121.53879
595606	CA	Butte	20	24.7%	43.2	$7,045	$35	$216	21.9%	38.4	$3,745	$20	$130	39.7625	-121.89876
595480	CA	Butte	20	24.3%	42.6	$7,045	$35	$219	21.6%	37.8	$3,745	$20	$132	39.7625	-121.9159
598021	CA	Butte	20	23.2%	40.7	$7,045	$35	$229	20.5%	35.9	$3,745	$20	$139	39.92925	-121.57307
598097	CA	Butte	20	23.3%	40.9	$7,045	$35	$228	20.5%	36.0	$3,745	$20	$139	39.53289	-121.55593
597848	CA	Butte	20	23.4%	40.9	$7,066	$35	$229	20.6%	36.1	$3,766	$20	$139	39.55661	-121.59022
568420	CA	Butte	20	23.4%	41.0	$7,056	$35	$228	20.5%	36.0	$3,756	$20	$139	39.46179	-121.57307
568613	CA	Butte	20	23.4%	41.0	$7,056	$35	$228	20.5%	35.9	$3,756	$20	$139	39.46968	-121.54736
567646	CA	Butte	20	23.7%	41.6	$7,043	$35	$224	20.9%	36.6	$3,743	$20	$136	39.41442	-121.67592
596178	CA	Butte	20	24.6%	43.1	$7,063	$35	$217	21.8%	38.2	$3,763	$20	$131	39.80217	-121.82163
596241	CA	Butte	20	24.9%	43.6	$7,064	$35	$215	22.1%	38.8	$3,764	$20	$129	39.80217	-121.81306
567913	CA	Butte	20	23.9%	41.9	$7,051	$35	$223	21.1%	36.9	$3,751	$20	$135	39.50128	-121.64164
598090	CA	Butte	20	23.4%	40.9	$7,060	$35	$229	20.6%	36.1	$3,760	$20	$139	39.97697	-121.5645
597218	CA	Butte	20	22.8%	39.9	$7,047	$35	$234	20.0%	35.0	$3,747	$20	$143	39.55661	-121.67592
600807	CA	Butte	20	23.2%	40.7	$7,049	$35	$230	20.5%	35.8	$3,749	$20	$140	39.5408	-121.18739
600933	CA	Butte	20	23.2%	40.7	$7,055	$35	$230	20.5%	35.8	$3,755	$20	$140	39.5408	-121.17025
497649	CA	Calaveras	20	23.6%	41.3	$7,043	$35	$226	20.6%	36.1	$3,743	$20	$138	38.06224	-120.54458
497713	CA	Calaveras	20	24.0%	42.0	$7,044	$35	$222	21.0%	36.9	$3,744	$20	$136	38.06224	-120.53601
496768	CA	Calaveras	20	23.3%	40.8	$7,046	$35	$229	20.3%	35.5	$3,746	$20	$141	38.17848	-120.66457
498165	CA	Calaveras	20	23.8%	41.8	$7,048	$35	$224	20.9%	36.6	$3,748	$20	$136	38.09322	-120.47601
498294	CA	Calaveras	20	24.0%	42.0	$7,051	$35	$223	21.0%	36.9	$3,751	$20	$136	38.10097	-120.45887
498621	CA	Calaveras	20	23.9%	41.9	$7,061	$35	$223	21.0%	36.8	$3,761	$20	$136	38.15522	-120.41602
494838	CA	Calaveras	20	23.6%	41.3	$7,042	$35	$226	20.6%	36.1	$3,742	$20	$138	38.10097	-120.92169
497712	CA	Calaveras	20	23.6%	41.3	$7,042	$35	$226	20.7%	36.3	$3,742	$20	$138	38.0545	-120.53601
452477	CA	Calaveras	20	23.8%	41.7	$7,050	$35	$224	20.8%	36.4	$3,750	$20	$137	37.93846	-120.55315
452476	CA	Calaveras	20	23.8%	41.7	$7,053	$35	$224	20.8%	36.4	$3,753	$20	$137	37.93073	-120.55315
496558	CA	Calaveras	20	23.5%	41.2	$7,054	$35	$227	20.6%	36.1	$3,754	$20	$139	38.03902	-120.69028
496818	CA	Calaveras	20	23.5%	41.2	$7,055	$35	$227	20.6%	36.1	$3,755	$20	$139	38.06999	-120.656

				Base Case **One-Axis Tracking Crystalline Solar PV**					**Sensitivity Case** **20 Degree Fixed Tilt Thin Film Solar PV**						
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
498297	CA	Calaveras	20	23.9%	41.9	$7,042	$35	$223	21.0%	36.9	$3,742	$20	$135	38.12422	-120.45887
498233	CA	Calaveras	20	23.8%	41.8	$7,043	$35	$224	20.9%	36.6	$3,743	$20	$136	38.12422	-120.46744
495613	CA	Calaveras	20	23.5%	41.2	$7,044	$35	$227	20.6%	36.1	$3,744	$20	$138	38.15522	-120.81884
496387	CA	Calaveras	20	23.3%	40.8	$7,042	$35	$229	20.3%	35.5	$3,742	$20	$141	38.20175	-120.71599
498401	CA	Calaveras	20	24.0%	42.1	$7,173	$35	$225	21.1%	37.0	$3,873	$20	$139	38.43487	-120.4503
498395	CA	Calaveras	20	23.9%	41.9	$7,187	$35	$227	21.0%	36.8	$3,887	$20	$140	38.38818	-120.4503
498396	CA	Calaveras	20	24.0%	42.1	$7,286	$35	$229	21.1%	37.0	$3,986	$20	$143	38.39596	-120.4503
452015	CA	Calaveras	20	23.8%	41.7	$7,048	$35	$224	20.8%	36.4	$3,748	$20	$137	37.88437	-120.61314
451950	CA	Calaveras	20	23.8%	41.7	$7,052	$35	$224	20.8%	36.4	$3,752	$20	$137	37.88437	-120.62172
497630	CA	Calaveras	20	23.6%	41.3	$7,047	$35	$226	20.7%	36.3	$3,747	$20	$138	38.41152	-120.55315
564971	CA	Colusa	20	23.3%	40.9	$7,043	$35	$228	20.5%	35.9	$3,743	$20	$139	39.01313	-122.02733
564867	CA	Colusa	20	23.3%	40.9	$7,049	$35	$229	20.5%	35.9	$3,749	$20	$139	39.20169	-122.04447
527588	CA	Colusa	20	23.6%	41.3	$7,042	$35	$226	20.7%	36.2	$3,742	$20	$138	38.95823	-122.04447
528033	CA	Colusa	20	23.5%	41.2	$7,058	$35	$227	20.6%	36.0	$3,758	$20	$139	38.93471	-121.98447
527396	CA	Colusa	20	23.1%	40.5	$7,046	$35	$231	20.3%	35.6	$3,746	$20	$140	38.95823	-122.07018
563916	CA	Colusa	20	20.9%	36.6	$7,051	$35	$255	18.3%	32.0	$3,751	$20	$156	39.27253	-122.17303
565752	CA	Colusa	20	23.4%	41.1	$7,051	$35	$228	20.6%	36.2	$3,751	$20	$138	39.1152	-121.92448
564890	CA	Colusa	20	23.4%	41.0	$7,045	$35	$228	20.7%	36.2	$3,745	$20	$138	39.38287	-122.04447
564278	CA	Colusa	20	23.0%	40.3	$7,046	$35	$232	20.2%	35.4	$3,746	$20	$141	39.09949	-122.1216
564096	CA	Colusa	20	20.7%	36.2	$7,042	$35	$258	18.0%	31.5	$3,742	$20	$158	39.17809	-122.14732
443953	CA	Contra Costa	20	26.7%	46.8	$7,079	$35	$201	24.1%	42.2	$3,779	$20	$119	37.86892	-121.67592
443112	CA	Contra Costa	20	24.8%	43.5	$7,058	$35	$215	22.1%	38.7	$3,758	$20	$129	37.89982	-121.78734
443949	CA	Contra Costa	20	26.6%	46.7	$7,067	$35	$201	24.1%	42.2	$3,767	$20	$119	37.83804	-121.67592
443618	CA	Contra Costa	20	26.0%	45.6	$7,088	$35	$206	23.4%	40.9	$3,788	$20	$123	37.79173	-121.71878
443313	CA	Contra Costa	20	26.6%	46.7	$7,086	$35	$201	24.1%	42.2	$3,786	$20	$120	37.94619	-121.76163
443118	CA	Contra Costa	20	25.3%	44.4	$7,087	$35	$212	22.7%	39.7	$3,787	$20	$127	37.94619	-121.78734
444016	CA	Contra Costa	20	26.4%	46.3	$7,091	$35	$203	23.9%	41.8	$3,791	$20	$121	37.85348	-121.66735
709503	CA	Del Norte	20	23.8%	41.6	$7,043	$35	$224	21.1%	37.0	$3,743	$20	$135	41.78322	-124.17859
709818	CA	Del Norte	20	23.4%	41.1	$7,042	$35	$227	20.8%	36.4	$3,742	$20	$137	41.86503	-124.13574
709757	CA	Del Norte	20	23.7%	41.5	$7,043	$35	$225	21.1%	37.0	$3,743	$20	$135	41.86503	-124.14431
710975	CA	Del Norte	20	23.4%	41.1	$7,043	$35	$227	20.8%	36.4	$3,743	$20	$137	41.84866	-123.9729
710853	CA	Del Norte	20	23.5%	41.1	$7,052	$35	$227	20.9%	36.6	$3,752	$20	$137	41.84866	-123.99004
709628	CA	Del Norte	20	23.6%	41.3	$7,044	$35	$226	21.0%	36.8	$3,744	$20	$136	41.80775	-124.16145
710281	CA	Del Norte	20	23.5%	41.1	$7,095	$35	$229	20.9%	36.6	$3,795	$20	$138	41.6607	-124.06717
709561	CA	Del Norte	20	23.6%	41.4	$7,041	$35	$226	21.0%	36.9	$3,741	$20	$135	41.7587	-124.17002
711094	CA	Del Norte	20	23.5%	41.2	$7,108	$35	$229	21.0%	36.7	$3,808	$20	$138	41.82411	-123.95575
711033	CA	Del Norte	20	23.5%	41.2	$7,112	$35	$229	21.0%	36.7	$3,812	$20	$138	41.82411	-123.96432
709748	CA	Del Norte	20	23.8%	41.7	$7,056	$35	$224	21.2%	37.2	$3,756	$20	$135	41.7914	-124.14431
709461	CA	Del Norte	20	23.8%	41.6	$7,067	$35	$225	21.1%	37.0	$3,767	$20	$136	41.93875	-124.18717
710009	CA	Del Norte	20	23.5%	41.1	$7,053	$35	$227	20.9%	36.6	$3,753	$20	$137	41.93056	-124.11003
537611	CA	El Dorado	20	23.5%	41.1	$7,060	$35	$228	20.5%	36.0	$3,760	$20	$139	38.76249	-120.69885
537475	CA	El Dorado	20	23.4%	41.1	$7,074	$35	$228	20.5%	35.9	$3,774	$20	$140	38.69997	-120.71599
536842	CA	El Dorado	20	23.4%	41.1	$7,053	$35	$228	20.5%	36.0	$3,753	$20	$139	38.75468	-120.8017
536592	CA	El Dorado	20	23.4%	41.0	$7,064	$35	$228	20.5%	35.9	$3,764	$20	$140	38.8016	-120.83599
535035	CA	El Dorado	20	23.5%	41.2	$7,056	$35	$227	20.8%	36.4	$3,756	$20	$138	38.63751	-121.04168
535098	CA	El Dorado	20	23.6%	41.3	$7,063	$35	$226	20.7%	36.3	$3,763	$20	$138	38.6297	-121.03311
536836	CA	El Dorado	20	23.4%	41.1	$7,056	$35	$228	20.5%	35.9	$3,756	$20	$139	38.70778	-120.8017
536639	CA	El Dorado	20	23.5%	41.2	$7,057	$35	$227	20.6%	36.0	$3,757	$20	$139	38.66873	-120.82741
534981	CA	El Dorado	20	23.5%	41.1	$7,085	$35	$228	20.7%	36.3	$3,785	$20	$139	38.7156	-121.05025
537616	CA	El Dorado	20	23.4%	41.1	$7,083	$35	$229	20.5%	36.0	$3,783	$20	$140	38.8016	-120.69885
537551	CA	El Dorado	20	23.5%	41.1	$7,088	$35	$228	20.5%	36.0	$3,788	$20	$140	38.79378	-120.70742
538941	CA	El Dorado	20	23.6%	41.3	$7,195	$35	$231	20.7%	36.2	$3,895	$20	$143	38.65312	-120.51887
538940	CA	El Dorado	20	23.4%	41.1	$7,200	$35	$232	20.5%	36.0	$3,900	$20	$144	38.64531	-120.51887
535483	CA	El Dorado	20	23.6%	41.3	$7,042	$35	$226	20.7%	36.3	$3,742	$20	$138	38.63751	-120.98169
542751	CA	El Dorado	20	23.6%	41.3	$7,216	$35	$231	20.7%	36.2	$3,916	$20	$144	38.91903	-120.01319
542815	CA	El Dorado	20	23.6%	41.4	$7,220	$35	$231	20.7%	36.3	$3,920	$20	$143	38.91903	-120.00462
542743	CA	El Dorado	20	23.4%	41.1	$7,061	$35	$228	20.5%	36.0	$3,761	$20	$139	38.85638	-120.01319
543006	CA	El Dorado	20	23.6%	41.4	$7,064	$35	$226	20.7%	36.3	$3,764	$20	$138	38.9112	-119.97891
535451	CA	El Dorado	20	23.5%	41.2	$7,065	$35	$227	20.6%	36.0	$3,765	$20	$139	38.8877	-120.99026
536841	CA	El Dorado	20	23.5%	41.1	$7,052	$35	$227	20.5%	36.0	$3,752	$20	$139	38.74686	-120.8017
536963	CA	El Dorado	20	23.4%	41.1	$7,064	$35	$228	20.5%	36.0	$3,764	$20	$139	38.69997	-120.78456
536783	CA	El Dorado	20	23.5%	41.2	$7,059	$35	$227	20.6%	36.1	$3,759	$20	$139	38.79378	-120.81027
535872	CA	El Dorado	20	23.5%	41.2	$7,055	$35	$227	20.6%	36.0	$3,755	$20	$139	38.67654	-120.93026
535548	CA	El Dorado	20	23.6%	41.3	$7,057	$35	$226	20.7%	36.3	$3,757	$20	$138	38.64531	-120.97312
364072	CA	Fresno	20	24.2%	42.4	$7,083	$35	$221	21.2%	37.1	$3,783	$20	$136	36.68138	-120.15032
414859	CA	Fresno	20	24.2%	42.3	$7,049	$35	$221	21.1%	36.9	$3,749	$20	$135	37.07006	-119.50751
370686	CA	Fresno	20	24.1%	42.3	$7,215	$35	$226	21.1%	36.9	$3,915	$20	$141	36.78788	-119.29324
370621	CA	Fresno	20	24.4%	42.8	$7,217	$35	$223	21.4%	37.4	$3,917	$20	$139	36.79549	-119.30181
415697	CA	Fresno	20	24.0%	42.1	$7,166	$35	$225	20.9%	36.7	$3,866	$20	$140	37.01659	-119.39609
364734	CA	Fresno	20	24.8%	43.5	$7,107	$35	$217	21.8%	38.3	$3,807	$20	$133	36.69658	-120.06461
366969	CA	Fresno	20	24.5%	43.0	$7,056	$35	$217	21.4%	37.6	$3,756	$20	$133	36.62818	-119.77321
318276	CA	Fresno	20	24.9%	43.6	$7,072	$35	$215	21.9%	38.3	$3,772	$20	$131	36.24172	-120.0989
316058	CA	Fresno	20	24.9%	43.6	$7,068	$35	$215	22.3%	39.1	$3,768	$20	$129	36.4385	-120.3903
317246	CA	Fresno	20	25.3%	44.4	$7,099	$35	$212	22.3%	39.1	$3,799	$20	$129	36.4385	-120.23603
362170	CA	Fresno	20	23.4%	40.9	$7,067	$35	$229	20.8%	36.4	$3,767	$20	$138	36.77266	-120.39888
362169	CA	Fresno	20	22.9%	40.2	$7,072	$35	$233	20.5%	35.9	$3,772	$20	$140	36.76505	-120.39888
362083	CA	Fresno	20	24.1%	42.2	$7,111	$35	$223	21.4%	37.5	$3,811	$20	$135	36.61299	-120.40745
367789	CA	Fresno	20	24.2%	42.5	$7,052	$35	$220	21.1%	37.0	$3,752	$20	$135	36.84118	-119.67036
367923	CA	Fresno	20	24.4%	42.8	$7,066	$35	$219	21.3%	37.4	$3,766	$20	$134	36.85642	-119.65322
316229	CA	Fresno	20	25.2%	44.1	$7,043	$35	$212	22.2%	39.0	$3,743	$20	$128	36.23416	-120.36459
316024	CA	Fresno	20	25.1%	44.0	$7,041	$35	$212	22.1%	38.6	$3,741	$20	$129	36.18127	-120.3903
316559	CA	Fresno	20	25.2%	44.1	$7,045	$35	$212	22.2%	39.0	$3,745	$20	$128	36.23416	-120.32174
316881	CA	Fresno	20	24.9%	43.6	$7,060	$35	$215	21.8%	38.2	$3,760	$20	$131	36.17372	-120.27888
367730	CA	Fresno	20	24.6%	43.1	$7,048	$35	$217	21.5%	37.7	$3,748	$20	$132	36.89453	-119.67893
316154	CA	Fresno	20	24.9%	43.6	$7,060	$35	$215	22.3%	39.0	$3,760	$20	$128	36.16617	-120.37316
368956	CA	Fresno	20	24.1%	42.3	$7,119	$35	$223	21.0%	36.8	$3,819	$20	$138	36.68138	-119.51608
362739	CA	Fresno	20	23.7%	41.6	$7,054	$35	$225	21.1%	37.0	$3,754	$20	$135	36.58262	-120.32174
362168	CA	Fresno	20	23.2%	40.6	$7,140	$35	$233	20.8%	36.4	$3,840	$20	$140	36.75743	-120.39888
318138	CA	Fresno	20	25.4%	44.4	$7,060	$35	$211	22.4%	39.2	$3,760	$20	$128	36.19638	-120.11604
361027	CA	Fresno	20	22.9%	40.1	$7,073	$35	$234	20.5%	35.9	$3,773	$20	$140	36.61299	-120.54458
361477	CA	Fresno	20	22.9%	40.1	$7,082	$35	$234	20.5%	35.9	$3,782	$20	$141	36.5219	-120.48458
366254	CA	Fresno	20	24.5%	42.9	$7,048	$35	$218	21.4%	37.6	$3,748	$20	$133	36.71179	-119.86749
414794	CA	Fresno	20	24.2%	42.5	$7,064	$35	$220	21.2%	37.1	$3,764	$20	$135	37.07006	-119.51608

				Base Case One-Axis Tracking Crystalline Solar PV					**Sensitivity Case** 20 Degree Fixed Tilt Thin Film Solar PV						
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
322135	CA	Fresno	20	24.6%	43.1	$7,047	$35	$217	21.5%	37.7	$3,747	$20	$133	36.4764	-119.60179
368081	CA	Fresno	20	24.6%	43.2	$7,067	$35	$217	21.5%	37.7	$3,767	$20	$133	36.55225	-119.6275
362149	CA	Fresno	20	23.2%	40.6	$7,042	$35	$230	20.8%	36.4	$3,742	$20	$137	36.61299	-120.39888
367440	CA	Fresno	20	24.2%	42.5	$7,048	$35	$220	21.1%	37.0	$3,748	$20	$135	36.69658	-119.71321
367506	CA	Fresno	20	24.4%	42.7	$7,052	$35	$219	21.3%	37.2	$3,752	$20	$134	36.69658	-119.70464
361902	CA	Fresno	20	23.2%	40.6	$7,065	$35	$230	20.8%	36.4	$3,765	$20	$138	36.74222	-120.43316
362424	CA	Fresno	20	24.1%	42.3	$7,075	$35	$222	21.5%	37.6	$3,775	$20	$134	36.69658	-120.36459
362761	CA	Fresno	20	24.4%	42.8	$7,055	$35	$218	21.3%	37.3	$3,755	$20	$134	36.74982	-120.32174
362433	CA	Fresno	20	23.6%	41.4	$7,059	$35	$226	21.1%	36.9	$3,759	$20	$136	36.76505	-120.36459
360340	CA	Fresno	20	22.9%	40.2	$7,056	$35	$233	20.5%	35.9	$3,756	$20	$140	36.90977	-120.63886
360406	CA	Fresno	20	23.2%	40.6	$7,058	$35	$230	20.6%	36.1	$3,758	$20	$139	36.90977	-120.63029
371464	CA	Fresno	20	24.4%	42.8	$7,128	$35	$220	21.4%	37.4	$3,828	$20	$136	36.68138	-119.19039
359250	CA	Fresno	20	22.3%	39.1	$7,111	$35	$241	19.9%	34.9	$3,811	$20	$145	36.65098	-120.77599
359184	CA	Fresno	20	22.3%	39.1	$7,116	$35	$241	19.9%	34.9	$3,816	$20	$146	36.65098	-120.78456
315889	CA	Fresno	20	25.4%	44.5	$7,044	$35	$210	22.5%	39.5	$3,744	$20	$126	36.15862	-120.40745
369764	CA	Fresno	20	24.4%	42.8	$7,057	$35	$219	21.2%	37.2	$3,757	$20	$135	36.8031	-119.41323
369698	CA	Fresno	20	24.3%	42.5	$7,062	$35	$220	21.1%	37.0	$3,762	$20	$136	36.8031	-119.4218
316962	CA	Fresno	20	25.3%	44.4	$7,080	$35	$211	22.3%	39.1	$3,780	$20	$129	36.28709	-120.27031
369227	CA	Fresno	20	24.1%	42.3	$7,053	$35	$221	21.0%	36.8	$3,753	$20	$136	36.73461	-119.4818
369226	CA	Fresno	20	24.3%	42.6	$7,054	$35	$219	21.2%	37.1	$3,754	$20	$135	36.727	-119.4818
371004	CA	Fresno	20	24.1%	42.3	$7,118	$35	$223	21.1%	36.9	$3,818	$20	$138	36.69658	-119.25039
371005	CA	Fresno	20	24.4%	42.8	$7,121	$35	$220	21.4%	37.4	$3,821	$20	$136	36.70419	-119.25039
367903	CA	Fresno	20	24.4%	42.7	$7,064	$35	$219	21.3%	37.2	$3,764	$20	$135	36.70419	-119.65322
368566	CA	Fresno	20	24.6%	43.2	$7,068	$35	$217	21.5%	37.7	$3,768	$20	$133	36.727	-119.56751
368759	CA	Fresno	20	24.6%	43.1	$7,047	$35	$217	21.5%	37.7	$3,747	$20	$133	36.68898	-119.5418
317776	CA	Fresno	20	25.4%	44.4	$7,083	$35	$211	22.4%	39.2	$3,783	$20	$129	36.45366	-120.16746
317710	CA	Fresno	20	25.4%	44.6	$7,086	$35	$211	22.4%	39.3	$3,786	$20	$128	36.45366	-120.17603
363720	CA	Fresno	20	24.4%	42.8	$7,101	$35	$220	21.4%	37.5	$3,801	$20	$135	36.51432	-120.19318
366000	CA	Fresno	20	24.4%	42.7	$7,066	$35	$219	21.3%	37.3	$3,766	$20	$135	36.78788	-119.90177
367439	CA	Fresno	20	24.2%	42.5	$7,045	$35	$220	21.1%	37.0	$3,745	$20	$135	36.68898	-119.71321
363657	CA	Fresno	20	24.1%	42.3	$7,094	$35	$222	21.1%	37.0	$3,794	$20	$137	36.53708	-120.20175
362418	CA	Fresno	20	23.6%	41.4	$7,061	$35	$226	21.1%	36.9	$3,761	$20	$136	36.65098	-120.36459
360535	CA	Fresno	20	22.9%	40.2	$7,110	$35	$234	20.5%	35.9	$3,810	$20	$141	36.8869	-120.61314
360601	CA	Fresno	20	22.9%	40.2	$7,111	$35	$234	20.5%	35.9	$3,811	$20	$141	36.8869	-120.60457
362482	CA	Fresno	20	23.3%	40.7	$7,048	$35	$229	20.7%	36.3	$3,748	$20	$138	36.63578	-120.35602
317240	CA	Fresno	20	25.3%	44.4	$7,070	$35	$211	22.3%	39.1	$3,770	$20	$128	36.39305	-120.23603
317241	CA	Fresno	20	25.3%	44.4	$7,072	$35	$211	22.3%	39.1	$3,772	$20	$129	36.40062	-120.23603
370051	CA	Fresno	20	24.3%	42.5	$7,264	$35	$226	21.1%	37.0	$3,964	$20	$142	36.97843	-119.37895
367400	CA	Fresno	20	24.6%	43.1	$7,056	$35	$217	21.5%	37.7	$3,756	$20	$133	36.89453	-119.72178
594030	CA	Glenn	20	23.7%	41.6	$7,043	$35	$225	20.9%	36.6	$3,743	$20	$136	39.75457	-122.11303
594657	CA	Glenn	20	24.1%	42.2	$7,044	$35	$221	21.2%	37.2	$3,744	$20	$134	39.73079	-122.02733
594286	CA	Glenn	20	23.9%	41.8	$7,054	$35	$224	21.1%	37.0	$3,754	$20	$135	39.7863	-122.07875
594636	CA	Glenn	20	24.1%	42.2	$7,043	$35	$221	21.3%	37.4	$3,743	$20	$134	39.56452	-122.02733
593521	CA	Glenn	20	23.7%	41.5	$7,047	$35	$225	20.9%	36.5	$3,747	$20	$137	39.71494	-122.1816
590607	CA	Glenn	20	24.2%	42.4	$7,063	$35	$221	21.5%	37.7	$3,763	$20	$133	39.58825	-122.57586
648410	CA	Humboldt	20	24.1%	42.2	$7,173	$35	$225	21.4%	37.5	$3,873	$20	$137	40.50409	-123.63863
677826	CA	Humboldt	20	23.0%	40.4	$7,064	$35	$232	20.3%	35.6	$3,764	$20	$141	41.14054	-124.12717
645751	CA	Humboldt	20	24.3%	42.5	$7,041	$35	$220	21.6%	37.9	$3,741	$20	$132	40.90619	-124.00718
645937	CA	Humboldt	20	24.1%	42.1	$7,040	$35	$221	21.4%	37.5	$3,740	$20	$133	40.882	-123.98147
615016	CA	Humboldt	20	21.8%	38.2	$7,060	$35	$245	19.2%	33.7	$3,760	$20	$149	40.49607	-123.75006
614268	CA	Humboldt	20	21.2%	37.2	$7,080	$35	$252	18.7%	32.8	$3,780	$20	$154	40.46401	-123.8529
645140	CA	Humboldt	20	24.1%	42.3	$7,042	$35	$221	21.4%	37.6	$3,742	$20	$133	40.55222	-124.08432
644141	CA	Humboldt	20	23.2%	40.6	$7,042	$35	$230	20.4%	35.8	$3,742	$20	$140	40.62447	-124.22145
644930	CA	Humboldt	20	24.0%	42.1	$7,050	$35	$222	21.3%	37.4	$3,750	$20	$134	40.89006	-124.1186
613705	CA	Humboldt	20	21.0%	36.7	$7,148	$35	$258	18.5%	32.5	$3,848	$20	$158	40.42396	-123.93004
613669	CA	Humboldt	20	22.2%	39.0	$7,103	$35	$241	19.5%	34.2	$3,803	$20	$148	40.13627	-123.93004
680087	CA	Humboldt	20	23.8%	41.7	$7,147	$35	$227	21.1%	37.0	$3,847	$20	$138	41.17292	-123.81005
645312	CA	Humboldt	20	24.1%	42.3	$7,050	$35	$221	21.4%	37.6	$3,750	$20	$133	40.92233	-124.06717
644991	CA	Humboldt	20	24.0%	42.1	$7,082	$35	$223	21.3%	37.4	$3,782	$20	$135	40.87394	-124.11003
616007	CA	Humboldt	20	22.3%	39.0	$7,123	$35	$242	19.5%	34.2	$3,823	$20	$149	40.48806	-123.61292
615506	CA	Humboldt	20	22.3%	39.0	$7,151	$35	$243	19.5%	34.2	$3,851	$20	$150	40.44799	-123.68149
647312	CA	Humboldt	20	24.3%	42.5	$7,086	$35	$221	21.6%	37.9	$3,786	$20	$133	40.79336	-123.79291
612350	CA	Humboldt	20	19.7%	34.4	$7,045	$35	$271	17.3%	30.4	$3,745	$20	$164	40.49607	-124.1186
647126	CA	Humboldt	20	24.3%	42.5	$7,046	$35	$219	21.6%	37.9	$3,746	$20	$132	40.81752	-123.81862
677879	CA	Humboldt	20	23.0%	40.3	$7,049	$35	$232	20.2%	35.4	$3,749	$20	$141	41.07581	-124.1186
645809	CA	Humboldt	20	24.1%	42.3	$7,053	$35	$221	21.4%	37.5	$3,753	$20	$133	40.86587	-123.99861
646946	CA	Humboldt	20	24.2%	42.4	$7,154	$35	$223	21.6%	37.8	$3,854	$20	$136	40.89006	-123.84433
47295	CA	Imperial	20	27.3%	47.7	$7,066	$35	$196	24.3%	42.7	$3,766	$20	$118	33.17844	-115.57352
16796	CA	Imperial	20	27.2%	47.6	$7,064	$35	$197	24.2%	42.4	$3,764	$20	$118	32.99653	-115.38496
43766	CA	Imperial	20	27.0%	47.3	$7,042	$35	$197	24.1%	42.2	$3,742	$20	$118	33.10563	-116.01063
23360	CA	Imperial	20	27.0%	47.3	$7,066	$35	$198	24.1%	42.2	$3,766	$20	$119	32.76423	-114.55359
23918	CA	Imperial	20	27.0%	47.3	$7,056	$35	$198	24.1%	42.2	$3,756	$20	$119	32.86579	-114.48503
46426	CA	Imperial	20	26.7%	46.8	$7,041	$35	$199	23.7%	41.5	$3,741	$20	$120	33.38264	-115.68494
16208	CA	Imperial	20	27.1%	47.6	$7,051	$35	$196	24.2%	42.4	$3,751	$20	$118	32.67727	-115.45353
16140	CA	Imperial	20	27.0%	47.3	$7,063	$35	$198	24.1%	42.2	$3,763	$20	$119	32.67727	-115.4621
47635	CA	Imperial	20	27.3%	47.7	$7,056	$35	$196	24.3%	42.7	$3,756	$20	$117	33.14203	-115.53066
15268	CA	Imperial	20	26.6%	46.5	$7,045	$35	$201	23.6%	41.3	$3,745	$20	$121	32.76423	-115.57352
13641	CA	Imperial	20	26.6%	46.5	$7,045	$35	$201	23.6%	41.3	$3,745	$20	$121	32.80049	-115.77922
13714	CA	Imperial	20	26.6%	46.5	$7,042	$35	$201	23.6%	41.3	$3,742	$20	$121	32.83676	-115.77065
18117	CA	Imperial	20	27.1%	47.5	$7,046	$35	$197	24.2%	42.4	$3,746	$20	$118	32.7135	-115.21354
17791	CA	Imperial	20	27.1%	47.5	$7,041	$35	$196	24.2%	42.4	$3,741	$20	$118	32.81499	-115.2564
17787	CA	Imperial	20	26.8%	47.0	$7,045	$35	$199	23.9%	41.8	$3,745	$20	$120	32.78598	-115.2564
17785	CA	Imperial	20	26.8%	47.0	$7,045	$35	$199	23.9%	41.8	$3,745	$20	$120	32.77148	-115.2564
17789	CA	Imperial	20	26.8%	47.0	$7,046	$35	$199	23.9%	41.8	$3,746	$20	$120	32.80049	-115.2564
17786	CA	Imperial	20	26.8%	47.0	$7,045	$35	$199	23.9%	41.8	$3,745	$20	$120	32.77873	-115.2564
52039	CA	Imperial	20	26.9%	47.1	$7,041	$35	$198	24.0%	42.0	$3,741	$20	$119	33.0547	-114.98213
52244	CA	Imperial	20	26.9%	47.1	$7,082	$35	$199	24.0%	42.0	$3,782	$20	$120	33.04016	-114.95642
52248	CA	Imperial	20	26.9%	47.1	$7,085	$35	$199	24.0%	42.0	$3,785	$20	$120	33.06925	-114.95642
15535	CA	Imperial	20	27.0%	47.3	$7,052	$35	$197	24.1%	42.2	$3,752	$20	$119	32.72799	-115.53924
15425	CA	Imperial	20	27.0%	47.3	$7,043	$35	$197	24.0%	42.1	$3,743	$20	$119	32.91661	-115.55638
17042	CA	Imperial	20	27.2%	47.6	$7,062	$35	$197	24.2%	42.4	$3,762	$20	$118	32.80774	-115.35068
16714	CA	Imperial	20	27.1%	47.6	$7,058	$35	$197	24.2%	42.4	$3,758	$20	$118	32.89482	-115.39353
21795	CA	Imperial	20	26.6%	46.6	$7,043	$35	$200	23.7%	41.4	$3,743	$20	$120	32.75698	-114.75072

			Base Case: One-Axis Tracking Crystalline Solar PV						Sensitivity Case: 20 Degree Fixed Tilt Thin Film Solar PV							
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
21796	CA	Imperial	20	27.4%	48.0	$7,043	$35	$194	24.4%	42.8	$3,743	$20	$117	32.76423	-114.75072
15689	CA	Imperial	20	27.0%	47.2	$7,045	$35	$198	24.0%	42.0	$3,745	$20	$119	32.85853	-115.52209
15762	CA	Imperial	20	27.0%	47.3	$7,048	$35	$197	24.1%	42.2	$3,748	$20	$119	32.89482	-115.51352
14187	CA	Imperial	20	26.6%	46.5	$7,058	$35	$201	23.6%	41.3	$3,758	$20	$121	32.81499	-115.71065
47857	CA	Imperial	20	26.9%	47.0	$7,047	$35	$198	23.9%	41.8	$3,747	$20	$120	33.25131	-115.50495
47788	CA	Imperial	20	26.9%	47.0	$7,050	$35	$199	23.9%	41.8	$3,750	$20	$120	33.25131	-115.51352
23292	CA	Imperial	20	26.9%	47.0	$7,052	$35	$199	24.0%	42.0	$3,752	$20	$119	32.76423	-114.56217
47688	CA	Imperial	20	27.2%	47.7	$7,042	$35	$196	24.3%	42.5	$3,742	$20	$117	33.02561	-115.52209
16007	CA	Imperial	20	27.0%	47.3	$7,051	$35	$198	24.1%	42.1	$3,751	$20	$119	32.69901	-115.47924
13029	CA	Imperial	20	26.9%	47.1	$7,046	$35	$198	23.9%	41.9	$3,746	$20	$119	32.80049	-115.85635
15735	CA	Imperial	20	27.0%	47.3	$7,049	$35	$197	24.1%	42.2	$3,749	$20	$119	32.69901	-115.51352
47548	CA	Imperial	20	27.2%	47.7	$7,051	$35	$196	24.3%	42.5	$3,751	$20	$118	33.01107	-115.53924
43995	CA	Imperial	20	27.2%	47.6	$7,049	$35	$196	24.3%	42.6	$3,749	$20	$118	33.2659	-115.98492
46527	CA	Imperial	20	26.8%	47.0	$7,075	$35	$200	23.8%	41.8	$3,775	$20	$120	33.11291	-115.6678
20774	CA	Imperial	20	26.6%	46.7	$7,042	$35	$200	23.7%	41.6	$3,742	$20	$120	32.74973	-114.87928
14251	CA	Imperial	20	27.1%	47.6	$7,046	$35	$196	24.2%	42.3	$3,746	$20	$118	32.78598	-115.70208
14793	CA	Imperial	20	26.5%	46.5	$7,053	$35	$201	23.5%	41.2	$3,753	$20	$122	32.77148	-115.63351
14263	CA	Imperial	20	27.1%	47.4	$7,052	$35	$197	24.2%	42.3	$3,752	$20	$118	32.87305	-115.70208
18628	CA	Imperial	20	26.8%	47.0	$7,042	$35	$199	23.9%	41.8	$3,742	$20	$119	32.96746	-115.15355
19303	CA	Imperial	20	27.2%	47.7	$7,045	$35	$196	24.2%	42.5	$3,745	$20	$118	32.93114	-115.06784
53345	CA	Imperial	20	26.9%	47.1	$7,063	$35	$199	24.0%	42.1	$3,763	$20	$119	33.01834	-114.81929
15608	CA	Imperial	20	27.1%	47.5	$7,045	$35	$196	24.2%	42.4	$3,745	$20	$118	32.76423	-115.53066
17029	CA	Imperial	20	27.1%	47.6	$7,050	$35	$196	24.2%	42.5	$3,750	$20	$118	32.7135	-115.35068
46723	CA	Imperial	20	27.1%	47.4	$7,054	$35	$197	24.2%	42.4	$3,754	$20	$118	33.03288	-115.64209
23154	CA	Imperial	20	27.1%	47.4	$7,059	$35	$197	24.2%	42.3	$3,759	$20	$118	32.74973	-114.57931
422178	CA	Inyo	20	24.0%	42.1	$7,096	$35	$223	20.9%	36.7	$3,796	$20	$138	37.36863	-118.54758
422565	CA	Inyo	20	24.1%	42.2	$7,070	$35	$222	21.0%	36.8	$3,770	$20	$137	37.34562	-118.49616
422243	CA	Inyo	20	24.0%	42.0	$7,071	$35	$223	20.9%	36.6	$3,771	$20	$137	37.36863	-118.53901
422760	CA	Inyo	20	25.3%	44.4	$7,041	$35	$210	22.7%	39.7	$3,741	$20	$126	37.34562	-118.47045
422694	CA	Inyo	20	24.1%	42.2	$7,042	$35	$221	21.0%	36.8	$3,742	$20	$136	37.33796	-118.47902
281191	CA	Inyo	20	26.6%	46.6	$7,175	$35	$204	23.8%	41.8	$3,875	$20	$123	35.83459	-117.87049
426469	CA	Inyo	20	24.1%	42.3	$7,051	$35	$221	21.0%	36.8	$3,751	$20	$136	37.3763	-117.98191
378941	CA	Inyo	20	24.3%	42.5	$7,042	$35	$220	21.1%	37.1	$3,742	$20	$135	36.82595	-118.22189
334636	CA	Inyo	20	27.1%	47.5	$7,069	$35	$197	24.4%	42.8	$3,769	$20	$117	36.18127	-117.97334
334637	CA	Inyo	20	27.1%	47.5	$7,074	$35	$197	24.4%	42.8	$3,774	$20	$118	36.18883	-117.97334
422826	CA	Inyo	20	24.0%	42.1	$7,043	$35	$222	20.9%	36.7	$3,743	$20	$136	37.35329	-118.46188
380234	CA	Inyo	20	24.1%	42.3	$7,041	$35	$221	21.0%	36.8	$3,741	$20	$136	36.62059	-118.05048
380233	CA	Inyo	20	24.1%	42.3	$7,044	$35	$221	21.0%	36.8	$3,744	$20	$136	36.61299	-118.05048
421792	CA	Inyo	20	24.0%	42.0	$7,100	$35	$224	20.9%	36.6	$3,800	$20	$138	37.39932	-118.59901
422892	CA	Inyo	20	24.1%	42.3	$7,040	$35	$221	21.0%	36.8	$3,740	$20	$136	37.36096	-118.45331
422249	CA	Inyo	20	24.0%	42.0	$7,048	$35	$222	20.9%	36.6	$3,748	$20	$137	37.41467	-118.53901
425811	CA	Inyo	20	24.1%	42.2	$7,112	$35	$223	21.0%	36.8	$3,812	$20	$138	37.31496	-118.06762
423748	CA	Inyo	20	24.1%	42.3	$7,116	$35	$223	21.0%	36.8	$3,816	$20	$138	37.44538	-118.34188
223267	CA	Kern	20	24.9%	43.6	$7,044	$35	$214	21.8%	38.2	$3,744	$20	$131	35.06376	-118.28189
264422	CA	Kern	20	25.2%	44.1	$7,059	$35	$212	22.4%	39.2	$3,759	$20	$128	35.69185	-120.01319
218726	CA	Kern	20	25.0%	43.8	$7,063	$35	$214	21.8%	38.2	$3,763	$20	$131	35.17556	-118.8647
218278	CA	Kern	20	24.7%	43.3	$7,045	$35	$215	21.5%	37.7	$3,745	$20	$132	35.33234	-118.9247
218144	CA	Kern	20	26.6%	46.7	$7,046	$35	$200	23.7%	41.5	$3,746	$20	$120	35.33234	-118.94184
214161	CA	Kern	20	25.0%	43.9	$7,051	$35	$213	22.0%	38.5	$3,751	$20	$130	35.10847	-119.44752
266084	CA	Kern	20	25.5%	44.6	$7,050	$35	$209	22.6%	39.5	$3,750	$20	$126	35.59432	-119.79892
276470	CA	Kern	20	24.9%	43.7	$7,071	$35	$215	21.8%	38.2	$3,771	$20	$131	35.60182	-118.47045
271197	CA	Kern	20	24.5%	43.0	$7,083	$35	$218	21.4%	37.4	$3,783	$20	$135	35.75192	-119.14754
214493	CA	Kern	20	25.0%	43.8	$7,043	$35	$213	21.9%	38.3	$3,743	$20	$130	35.08611	-119.40466
222994	CA	Kern	20	24.8%	43.5	$7,042	$35	$215	21.7%	38.0	$3,742	$20	$131	35.02653	-118.31617
266143	CA	Kern	20	25.5%	44.6	$7,047	$35	$209	22.6%	39.5	$3,747	$20	$126	35.53436	-119.79035
269794	CA	Kern	20	24.6%	43.1	$7,050	$35	$217	21.4%	37.6	$3,750	$20	$133	35.78197	-119.32753
217062	CA	Kern	20	24.9%	43.6	$7,045	$35	$214	21.7%	38.0	$3,745	$20	$132	35.25765	-119.07897
164076	CA	Kern	20	25.9%	45.4	$7,077	$35	$206	22.8%	40.0	$3,777	$20	$126	34.84062	-118.85613
217025	CA	Kern	20	24.8%	43.4	$7,048	$35	$215	21.6%	37.9	$3,748	$20	$132	35.48194	-119.08754
271640	CA	Kern	20	24.8%	43.4	$7,058	$35	$215	21.6%	37.8	$3,758	$20	$133	35.55684	-119.08754
271639	CA	Kern	20	24.7%	43.2	$7,061	$35	$217	21.5%	37.6	$3,761	$20	$133	35.54935	-119.08754
211867	CA	Kern	20	27.3%	47.9	$7,051	$35	$195	24.5%	42.9	$3,751	$20	$117	35.48943	-119.74749
282766	CA	Kern	20	26.7%	46.8	$7,054	$35	$200	24.0%	42.0	$3,754	$20	$119	35.58682	-117.66479
214357	CA	Kern	20	25.2%	44.1	$7,044	$35	$212	22.1%	38.7	$3,744	$20	$129	35.07121	-119.4218
214760	CA	Kern	20	25.0%	43.8	$7,041	$35	$213	21.9%	38.4	$3,741	$20	$130	35.07866	-119.37038
215027	CA	Kern	20	25.2%	44.1	$7,071	$35	$212	22.1%	38.7	$3,771	$20	$130	35.07121	-119.3361
170794	CA	Kern	20	27.4%	48.0	$7,081	$35	$196	24.5%	42.9	$3,781	$20	$118	34.97444	-117.99905
222797	CA	Kern	20	24.8%	43.4	$7,045	$35	$215	21.6%	37.9	$3,745	$20	$132	35.05632	-118.34188
221733	CA	Kern	20	26.2%	45.9	$7,050	$35	$203	23.3%	40.8	$3,750	$20	$122	35.11592	-118.47902
212459	CA	Kern	20	26.6%	46.6	$7,073	$35	$201	23.8%	41.7	$3,773	$20	$120	35.40711	-119.67036
212452	CA	Kern	20	26.6%	46.6	$7,042	$35	$200	23.8%	41.8	$3,742	$20	$120	35.35477	-119.67036
264498	CA	Kern	20	25.5%	44.7	$7,051	$35	$209	22.8%	39.9	$3,751	$20	$125	35.75943	-120.00462
222135	CA	Kern	20	26.2%	45.9	$7,044	$35	$203	23.3%	40.8	$3,744	$20	$122	35.11592	-118.42759
217890	CA	Kern	20	26.2%	45.9	$7,043	$35	$203	23.3%	40.8	$3,743	$20	$122	35.43703	-118.97612
217891	CA	Kern	20	26.2%	45.9	$7,046	$35	$203	23.3%	40.8	$3,746	$20	$122	35.44452	-118.97612
213106	CA	Kern	20	24.8%	43.4	$7,043	$35	$215	21.7%	38.0	$3,743	$20	$131	35.23525	-119.58465
226476	CA	Kern	20	27.0%	47.3	$7,062	$35	$198	24.1%	42.2	$3,762	$20	$119	35.01164	-117.87049
226343	CA	Kern	20	27.0%	47.3	$7,064	$35	$198	24.1%	42.2	$3,764	$20	$119	35.01909	-117.88763
214777	CA	Kern	20	25.2%	44.2	$7,051	$35	$211	22.1%	38.7	$3,751	$20	$129	35.2054	-119.37038
213984	CA	Kern	20	25.0%	43.9	$7,044	$35	$213	22.0%	38.5	$3,744	$20	$130	35.28752	-119.47323
217238	CA	Kern	20	24.9%	43.5	$7,048	$35	$215	21.7%	38.0	$3,748	$20	$132	35.07121	-119.05326
221534	CA	Kern	20	26.2%	45.9	$7,052	$35	$204	23.3%	40.8	$3,752	$20	$122	35.13083	-118.50473
213034	CA	Kern	20	25.2%	44.1	$7,046	$35	$212	22.4%	39.2	$3,746	$20	$128	35.19794	-119.59322
213101	CA	Kern	20	25.2%	44.1	$7,048	$35	$212	22.4%	39.2	$3,748	$20	$128	35.19794	-119.58465
164075	CA	Kern	20	25.9%	45.4	$7,123	$35	$208	22.8%	40.0	$3,823	$20	$127	34.83319	-118.85613
215678	CA	Kern	20	25.0%	43.8	$7,047	$35	$213	21.8%	38.3	$3,747	$20	$131	35.42955	-119.25896
215138	CA	Kern	20	24.8%	43.4	$7,045	$35	$215	21.6%	37.8	$3,745	$20	$132	35.39963	-119.32753
214207	CA	Kern	20	25.2%	44.1	$7,074	$35	$213	22.1%	38.7	$3,774	$20	$130	35.452	-119.44752
214743	CA	Kern	20	25.0%	43.8	$7,092	$35	$215	21.9%	38.3	$3,792	$20	$132	35.452	-119.37895
214828	CA	Kern	20	25.2%	44.2	$7,058	$35	$211	22.1%	38.7	$3,758	$20	$129	35.08611	-119.36181
212979	CA	Kern	20	25.2%	44.1	$7,045	$35	$211	22.4%	39.2	$3,745	$20	$127	35.28752	-119.60179
212914	CA	Kern	20	24.5%	43.0	$7,049	$35	$217	22.0%	38.5	$3,749	$20	$130	35.30246	-119.61036
275876	CA	Kern	20	24.9%	43.7	$7,149	$35	$217	21.8%	38.2	$3,849	$20	$134	35.66933	-118.54758

RETI Phase 1B Draft Report
Appendix D
Solar PV Projects

				Base Case One-Axis Tracking Crystalline Solar PV					**Sensitivity Case** 20 Degree Fixed Tilt Thin Film Solar PV						
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
223736	CA	Kern	20	24.9%	43.7	$7,041	$35	$214	21.9%	38.4	$3,741	$20	$130	35.06376	-118.22189
268161	CA	Kern	20	25.4%	44.5	$7,066	$35	$211	22.3%	39.1	$3,766	$20	$128	35.59432	-119.53323
267966	CA	Kern	20	25.4%	44.5	$7,068	$35	$211	22.3%	39.1	$3,768	$20	$129	35.63932	-119.55894
163154	CA	Kern	20	24.9%	43.6	$7,082	$35	$215	21.8%	38.2	$3,782	$20	$132	34.95955	-118.97612
221307	CA	Kern	20	26.6%	46.7	$7,057	$35	$200	23.7%	41.5	$3,757	$20	$121	35.43703	-118.53901
222399	CA	Kern	20	26.6%	46.7	$7,045	$35	$200	23.7%	41.5	$3,745	$20	$120	35.08611	-118.39331
227750	CA	Kern	20	27.1%	47.4	$7,044	$35	$197	24.2%	42.4	$3,744	$20	$118	35.01909	-117.70765
227817	CA	Kern	20	27.5%	48.1	$7,044	$35	$194	24.7%	43.2	$3,744	$20	$116	35.01909	-117.69908
162757	CA	Kern	20	24.8%	43.5	$7,061	$35	$215	21.7%	38.0	$3,761	$20	$132	34.99676	-119.02755
219230	CA	Kern	20	24.9%	43.6	$7,061	$35	$215	21.7%	38.0	$3,761	$20	$132	35.43703	-118.80471
272037	CA	Kern	20	24.6%	43.2	$7,043	$35	$216	21.5%	37.6	$3,743	$20	$133	35.51938	-119.03612
271970	CA	Kern	20	24.9%	43.5	$7,044	$35	$214	21.7%	38.0	$3,744	$20	$131	35.51938	-119.04469
276953	CA	Kern	20	24.9%	43.7	$7,089	$35	$215	21.8%	38.2	$3,789	$20	$132	35.70686	-118.41045
217824	CA	Kern	20	26.4%	46.2	$7,055	$35	$202	23.4%	41.0	$3,755	$20	$122	35.44452	-118.98469
212059	CA	Kern	20	26.6%	46.6	$7,041	$35	$200	23.8%	41.8	$3,741	$20	$120	35.42207	-119.72178
216287	CA	Kern	20	25.0%	43.8	$7,102	$35	$215	21.8%	38.3	$3,802	$20	$132	35.47445	-119.18182
216902	CA	Kern	20	24.8%	43.4	$7,061	$35	$216	21.6%	37.8	$3,761	$20	$133	35.06376	-119.09611
218474	CA	Kern	20	24.7%	43.3	$7,061	$35	$216	21.5%	37.7	$3,761	$20	$133	35.29499	-118.89899
218881	CA	Kern	20	24.7%	43.3	$7,066	$35	$216	21.5%	37.7	$3,766	$20	$133	35.33234	-118.84756
216555	CA	Kern	20	25.2%	44.1	$7,058	$35	$212	22.1%	38.7	$3,758	$20	$129	35.47445	-119.14754
222633	CA	Kern	20	24.9%	43.7	$7,081	$35	$215	21.7%	38.1	$3,781	$20	$132	35.33234	-118.3676
266624	CA	Kern	20	25.5%	44.7	$7,043	$35	$209	22.4%	39.3	$3,743	$20	$127	35.62432	-119.73035
270125	CA	Kern	20	24.6%	43.1	$7,084	$35	$218	21.4%	37.6	$3,784	$20	$134	35.75192	-119.28467
211978	CA	Kern	20	27.3%	47.9	$7,062	$35	$196	24.5%	42.9	$3,762	$20	$117	35.3174	-119.73035
212515	CA	Kern	20	25.2%	44.1	$7,044	$35	$212	22.1%	38.7	$3,744	$20	$129	35.32487	-119.66179
212915	CA	Kern	20	25.1%	44.0	$7,043	$35	$212	22.3%	39.1	$3,743	$20	$128	35.30993	-119.61036
213234	CA	Kern	20	24.8%	43.4	$7,043	$35	$215	21.7%	38.0	$3,743	$20	$131	35.19048	-119.56751
212581	CA	Kern	20	25.2%	44.2	$7,044	$35	$211	22.1%	38.7	$3,744	$20	$129	35.3174	-119.65322
213171	CA	Kern	20	24.8%	43.4	$7,042	$35	$215	21.7%	38.0	$3,742	$20	$131	35.22033	-119.57608
214621	CA	Kern	20	25.0%	43.8	$7,042	$35	$213	21.9%	38.4	$3,742	$20	$130	35.04142	-119.38752
227818	CA	Kern	20	27.4%	48.0	$7,046	$35	$194	24.6%	43.1	$3,746	$20	$116	35.02653	-117.69908
222472	CA	Kern	20	24.8%	43.4	$7,043	$35	$215	21.6%	37.9	$3,743	$20	$132	35.13083	-118.38474
271913	CA	Kern	20	24.9%	43.5	$7,056	$35	$215	21.7%	38.0	$3,756	$20	$132	35.59432	-119.05326
214987	CA	Kern	20	25.2%	44.2	$7,061	$35	$212	22.1%	38.7	$3,761	$20	$129	35.27258	-119.34467
215052	CA	Kern	20	25.2%	44.1	$7,063	$35	$212	22.1%	38.7	$3,763	$20	$130	35.25765	-119.3361
168850	CA	Kern	20	27.1%	47.5	$7,042	$35	$196	24.2%	42.5	$3,742	$20	$118	34.967	-118.24761
216990	CA	Kern	20	24.8%	43.4	$7,051	$35	$215	21.6%	37.9	$3,751	$20	$132	35.22033	-119.08754
212713	CA	Kern	20	24.8%	43.4	$7,045	$35	$215	22.2%	38.9	$3,745	$20	$128	35.30246	-119.63607
212782	CA	Kern	20	24.8%	43.4	$7,053	$35	$215	22.2%	38.9	$3,753	$20	$129	35.3174	-119.6275
215222	CA	Kern	20	25.2%	44.1	$7,053	$35	$212	22.1%	38.7	$3,753	$20	$129	35.02653	-119.31038
217467	CA	Kern	20	24.8%	43.5	$7,050	$35	$215	21.7%	38.0	$3,750	$20	$132	35.28005	-119.02755
265359	CA	Kern	20	25.4%	44.4	$7,060	$35	$211	22.6%	39.5	$3,760	$20	$127	35.68434	-119.8932
164364	CA	Kern	20	24.9%	43.7	$7,066	$35	$214	21.8%	38.2	$3,766	$20	$131	34.98932	-118.82185
211931	CA	Kern	20	27.3%	47.9	$7,042	$35	$195	24.5%	42.9	$3,742	$20	$116	35.46697	-119.73892
217758	CA	Kern	20	25.9%	45.3	$7,042	$35	$206	23.0%	40.2	$3,742	$20	$124	35.452	-118.99327
217825	CA	Kern	20	26.4%	46.2	$7,043	$35	$202	23.4%	41.0	$3,743	$20	$122	35.452	-118.98469
272581	CA	Kern	20	24.9%	43.5	$7,055	$35	$215	21.7%	38.0	$3,755	$20	$132	35.57933	-118.96755
272582	CA	Kern	20	24.6%	43.1	$7,060	$35	$217	21.5%	37.6	$3,760	$20	$133	35.58682	-118.96755
272518	CA	Kern	20	24.6%	43.1	$7,056	$35	$217	21.5%	37.6	$3,756	$20	$133	35.60932	-118.97612
272585	CA	Kern	20	24.6%	43.1	$7,058	$35	$217	21.5%	37.6	$3,758	$20	$133	35.60932	-118.96755
215679	CA	Kern	20	25.2%	44.1	$7,044	$35	$211	22.1%	38.7	$3,744	$20	$129	35.43703	-119.25896
215614	CA	Kern	20	25.0%	43.8	$7,048	$35	$213	21.8%	38.3	$3,748	$20	$131	35.452	-119.26753
173208	CA	Kern	20	27.8%	48.6	$7,081	$35	$193	24.9%	43.6	$3,781	$20	$116	34.98932	-117.6905
173275	CA	Kern	20	27.8%	48.6	$7,082	$35	$193	24.9%	43.6	$3,782	$20	$116	34.98932	-117.68193
168904	CA	Kern	20	27.0%	47.3	$7,044	$35	$197	24.1%	42.2	$3,744	$20	$118	34.87034	-118.23904
163493	CA	Kern	20	24.9%	43.6	$7,046	$35	$214	21.8%	38.2	$3,746	$20	$131	34.98932	-118.93327
217010	CA	Kern	20	24.8%	43.4	$7,048	$35	$215	21.6%	37.9	$3,748	$20	$132	35.36972	-119.08754
218778	CA	Kern	20	24.7%	43.3	$7,063	$35	$216	21.5%	37.7	$3,763	$20	$133	35.06376	-118.85613
268967	CA	Kern	20	25.1%	44.0	$7,047	$35	$212	22.1%	38.7	$3,747	$20	$129	35.60932	-119.43038
269034	CA	Kern	20	24.7%	43.3	$7,050	$35	$216	21.6%	37.9	$3,750	$20	$132	35.60932	-119.4218
215547	CA	Kern	20	25.2%	44.1	$7,088	$35	$213	22.1%	38.7	$3,788	$20	$130	35.452	-119.2761
217630	CA	Kern	20	25.9%	45.3	$7,041	$35	$206	23.0%	40.2	$3,741	$20	$124	35.49692	-119.01041
217563	CA	Kern	20	24.8%	43.5	$7,046	$35	$215	21.7%	38.0	$3,746	$20	$132	35.49692	-119.01898
268713	CA	Kern	20	25.0%	43.8	$7,046	$35	$213	21.9%	38.4	$3,746	$20	$130	35.71437	-119.46466
268714	CA	Kern	20	25.1%	44.0	$7,046	$35	$212	22.1%	38.7	$3,746	$20	$129	35.72188	-119.46466
211997	CA	Kern	20	27.3%	47.9	$7,043	$35	$195	24.5%	42.9	$3,743	$20	$116	35.45948	-119.73035
219648	CA	Kern	20	24.8%	43.5	$7,069	$35	$215	21.7%	38.0	$3,769	$20	$132	35.05632	-118.74471
213102	CA	Kern	20	24.5%	42.9	$7,043	$35	$218	21.4%	37.4	$3,743	$20	$133	35.2054	-119.58465
217759	CA	Kern	20	25.9%	45.3	$7,043	$35	$206	23.0%	40.2	$3,743	$20	$124	35.45948	-118.99327
213829	CA	Kern	20	25.0%	43.9	$7,046	$35	$213	22.0%	38.5	$3,746	$20	$130	35.13083	-119.49037
213762	CA	Kern	20	25.0%	43.9	$7,050	$35	$213	22.0%	38.5	$3,750	$20	$130	35.13083	-119.49894
213437	CA	Kern	20	25.3%	44.2	$7,048	$35	$211	22.2%	39.0	$3,748	$20	$128	35.2054	-119.5418
214289	CA	Kern	20	25.0%	43.9	$7,048	$35	$213	22.0%	38.5	$3,748	$20	$130	35.06376	-119.43038
222263	CA	Kern	20	26.4%	46.2	$7,057	$35	$202	23.5%	41.3	$3,757	$20	$121	35.07121	-118.41045
163293	CA	Kern	20	25.0%	43.8	$7,050	$35	$214	21.8%	38.2	$3,750	$20	$131	34.99676	-118.95898
215533	CA	Kern	20	25.0%	43.8	$7,046	$35	$213	21.8%	38.3	$3,746	$20	$131	35.34729	-119.2761
215802	CA	Kern	20	25.2%	44.1	$7,056	$35	$212	22.1%	38.7	$3,756	$20	$129	35.35477	-119.24182
213499	CA	Kern	20	25.3%	44.2	$7,041	$35	$211	22.2%	39.0	$3,741	$20	$128	35.16811	-119.53323
213566	CA	Kern	20	25.0%	43.9	$7,044	$35	$213	22.0%	38.5	$3,744	$20	$130	35.16811	-119.52465
222667	CA	Kern	20	24.8%	43.4	$7,047	$35	$215	21.6%	37.9	$3,747	$20	$132	35.08611	-118.35903
271705	CA	Kern	20	24.7%	43.3	$7,042	$35	$215	21.5%	37.7	$3,742	$20	$132	35.54186	-119.07897
271638	CA	Kern	20	24.6%	43.1	$7,044	$35	$216	21.5%	37.6	$3,744	$20	$133	35.54186	-119.08754
213915	CA	Kern	20	25.0%	43.9	$7,045	$35	$213	22.0%	38.5	$3,745	$20	$130	35.27258	-119.4818
214051	CA	Kern	20	25.0%	43.9	$7,049	$35	$213	22.0%	38.5	$3,749	$20	$130	35.28752	-119.46466
217640	CA	Kern	20	25.9%	45.3	$7,052	$35	$206	23.0%	40.2	$3,752	$20	$124	35.07121	-119.00184
272650	CA	Kern	20	24.9%	43.7	$7,041	$35	$214	21.8%	38.2	$3,741	$20	$131	35.59432	-118.95898
272583	CA	Kern	20	24.9%	43.5	$7,045	$35	$214	21.7%	38.0	$3,745	$20	$131	35.59432	-118.96755
223331	CA	Kern	20	24.9%	43.7	$7,042	$35	$214	21.9%	38.4	$3,742	$20	$130	35.04142	-118.27332
221705	CA	Kern	20	26.2%	45.9	$7,043	$35	$203	23.3%	40.8	$3,743	$20	$122	35.40711	-118.48759
218260	CA	Kern	20	26.6%	46.7	$7,071	$35	$201	23.7%	41.5	$3,771	$20	$121	35.19794	-118.9247
213104	CA	Kern	20	24.8%	43.4	$7,045	$35	$215	21.7%	38.0	$3,745	$20	$131	35.22033	-119.58465
277951	CA	Kern	20	25.8%	45.2	$7,058	$35	$207	22.9%	40.1	$3,758	$20	$125	35.65432	-118.28189
219344	CA	Kern	20	24.9%	43.5	$7,084	$35	$215	21.7%	38.0	$3,784	$20	$133	35.28752	-118.78757

				Base Case **One-Axis Tracking Crystalline Solar PV**					**Sensitivity Case** **20 Degree Fixed Tilt Thin Film Solar PV**						
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
212582	CA	Kern	20	24.1%	42.2	$7,042	$35	$221	21.5%	37.6	$3,742	$20	$133	35.32487	-119.65322
222739	CA	Kern	20	24.9%	43.6	$7,046	$35	$214	21.7%	38.1	$3,746	$20	$131	35.12337	-118.35046
322408	CA	Kings	20	24.6%	43.2	$7,071	$35	$217	21.5%	37.7	$3,771	$20	$133	36.04543	-119.55894
321637	CA	Kings	20	24.6%	43.1	$7,067	$35	$217	21.5%	37.7	$3,767	$20	$133	36.20393	-119.66179
263055	CA	Kings	20	25.3%	44.2	$7,071	$35	$212	22.5%	39.4	$3,771	$20	$128	35.99267	-120.19318
322474	CA	Kings	20	24.6%	43.2	$7,054	$35	$216	21.5%	37.7	$3,754	$20	$133	36.04543	-119.55037
321328	CA	Kings	20	24.6%	43.1	$7,111	$35	$219	21.5%	37.7	$3,811	$20	$135	36.36276	-119.70464
319645	CA	Kings	20	24.9%	43.6	$7,062	$35	$214	21.8%	38.2	$3,762	$20	$131	36.11333	-119.91891
319402	CA	Kings	20	25.1%	44.0	$7,075	$35	$213	22.1%	38.6	$3,775	$20	$130	36.27196	-119.95319
320515	CA	Kings	20	24.8%	43.5	$7,059	$35	$215	21.7%	38.1	$3,759	$20	$132	36.20393	-119.80749
318252	CA	Kings	20	25.3%	44.4	$7,053	$35	$211	22.3%	39.1	$3,753	$20	$128	36.06052	-120.0989
320457	CA	Kings	20	24.8%	43.5	$7,061	$35	$215	21.7%	38.1	$3,761	$20	$132	36.2644	-119.81606
319403	CA	Kings	20	25.3%	44.2	$7,063	$35	$212	22.1%	38.8	$3,763	$20	$129	36.27952	-119.95319
264862	CA	Kings	20	25.5%	44.7	$7,060	$35	$209	22.8%	39.9	$3,760	$20	$126	35.9776	-119.96176
523612	CA	Lake	20	22.6%	39.6	$7,067	$35	$236	20.0%	35.0	$3,767	$20	$143	38.89553	-122.57586
558315	CA	Lake	20	24.1%	42.2	$7,050	$35	$221	21.3%	37.3	$3,750	$20	$134	39.01313	-122.91869
522261	CA	Lake	20	23.0%	40.3	$7,078	$35	$233	20.3%	35.5	$3,778	$20	$142	38.84072	-122.75584
522071	CA	Lake	20	22.6%	39.7	$7,080	$35	$237	19.9%	34.8	$3,780	$20	$145	38.85638	-122.78156
557938	CA	Lake	20	23.6%	41.4	$7,044	$35	$225	20.8%	36.4	$3,744	$20	$137	39.06807	-122.97011
560753	CA	Lake	20	24.0%	42.0	$7,073	$35	$223	21.1%	37.0	$3,773	$20	$136	39.06022	-122.593
522275	CA	Lake	20	23.4%	40.9	$7,046	$35	$228	20.5%	35.9	$3,746	$20	$139	38.95039	-122.75584
523230	CA	Lake	20	23.7%	41.5	$7,056	$35	$225	20.8%	36.5	$3,756	$20	$137	38.9112	-122.62728
523420	CA	Lake	20	22.6%	39.6	$7,056	$35	$236	20.0%	35.0	$3,756	$20	$143	38.89553	-122.60157
558523	CA	Lake	20	24.1%	42.2	$7,071	$35	$222	21.3%	37.3	$3,771	$20	$135	39.13878	-122.89298
558524	CA	Lake	20	24.1%	42.2	$7,074	$35	$222	21.3%	37.3	$3,774	$20	$135	39.14664	-122.89298
523981	CA	Lake	20	23.6%	41.4	$7,043	$35	$225	20.7%	36.3	$3,743	$20	$138	38.77813	-122.52443
560303	CA	Lake	20	24.0%	42.0	$7,054	$35	$223	21.1%	37.0	$3,754	$20	$135	39.04452	-122.65299
523304	CA	Lake	20	23.6%	41.4	$7,068	$35	$226	20.7%	36.3	$3,768	$20	$138	38.98959	-122.61871
558334	CA	Lake	20	24.1%	42.2	$7,058	$35	$221	21.3%	37.3	$3,758	$20	$134	39.16236	-122.91869
639670	CA	Lassen	20	23.2%	40.7	$7,055	$35	$230	20.5%	35.8	$3,755	$20	$140	40.31993	-120.33888
699235	CA	Lassen	20	22.8%	40.0	$7,054	$35	$234	20.2%	35.4	$3,754	$20	$142	41.12435	-121.11882
668576	CA	Lassen	20	22.6%	39.6	$7,134	$35	$238	19.9%	34.9	$3,834	$20	$146	40.55222	-120.89598
668642	CA	Lassen	20	23.0%	40.2	$7,160	$35	$236	20.3%	35.5	$3,860	$20	$145	40.57629	-120.88741
640418	CA	Lassen	20	23.0%	40.3	$7,043	$35	$231	20.3%	35.5	$3,743	$20	$141	40.35192	-120.23603
638180	CA	Lassen	20	22.9%	40.2	$7,043	$35	$232	20.2%	35.4	$3,743	$20	$141	40.30394	-120.54458
638009	CA	Lassen	20	22.9%	40.1	$7,051	$35	$233	20.2%	35.3	$3,751	$20	$142	40.42396	-120.57029
703557	CA	Lassen	20	22.9%	40.1	$7,051	$35	$233	20.2%	35.4	$3,751	$20	$141	41.05155	-120.5103
640765	CA	Lassen	20	23.0%	40.3	$7,042	$35	$231	20.3%	35.5	$3,742	$20	$141	40.15222	-120.18461
634770	CA	Lassen	20	23.2%	40.6	$7,042	$35	$230	20.4%	35.8	$3,742	$20	$139	40.30394	-121.01597
698855	CA	Lassen	20	18.9%	33.1	$7,048	$35	$282	16.5%	28.9	$3,748	$20	$173	41.01114	-121.17025
637639	CA	Lassen	20	22.9%	40.1	$7,044	$35	$233	20.2%	35.3	$3,744	$20	$141	40.43998	-120.62172
638936	CA	Lassen	20	23.0%	40.3	$7,043	$35	$231	20.3%	35.6	$3,743	$20	$140	40.39994	-120.44173
640843	CA	Lassen	20	23.2%	40.7	$7,052	$35	$230	20.5%	35.8	$3,752	$20	$140	40.27996	-120.17603
634893	CA	Lassen	20	23.0%	40.3	$7,041	$35	$232	20.3%	35.6	$3,741	$20	$140	40.29595	-120.99883
165479	CA	Los Angeles	20	26.1%	45.8	$7,046	$35	$204	23.1%	40.5	$3,746	$20	$123	34.81091	-118.67615
169666	CA	Los Angeles	20	27.2%	47.7	$7,049	$35	$196	24.3%	42.6	$3,749	$20	$117	34.55884	-118.13619
110751	CA	Los Angeles	20	25.5%	44.7	$7,102	$35	$210	22.7%	39.7	$3,802	$20	$127	34.41092	-118.60758
168481	CA	Los Angeles	20	27.1%	47.5	$7,043	$35	$197	24.2%	42.4	$3,743	$20	$118	34.71444	-118.29046
113610	CA	Los Angeles	20	25.7%	45.0	$7,101	$35	$209	22.9%	40.1	$3,801	$20	$126	34.43309	-118.24761
110762	CA	Los Angeles	20	25.3%	44.3	$7,058	$35	$211	22.4%	39.3	$3,758	$20	$128	34.49224	-118.60758
164535	CA	Los Angeles	20	26.4%	46.3	$7,064	$35	$202	23.4%	41.0	$3,764	$20	$122	34.76637	-118.79614
111846	CA	Los Angeles	20	25.5%	44.6	$7,075	$35	$210	22.7%	39.7	$3,775	$20	$127	34.46266	-118.47045
168950	CA	Los Angeles	20	27.1%	47.5	$7,047	$35	$197	24.2%	42.4	$3,747	$20	$118	34.71444	-118.23046
170947	CA	Los Angeles	20	27.5%	48.2	$7,043	$35	$193	24.7%	43.3	$3,743	$20	$115	34.61808	-117.97334
110892	CA	Los Angeles	20	25.5%	44.7	$7,049	$35	$209	22.7%	39.7	$3,749	$20	$126	34.44787	-118.59044
166948	CA	Los Angeles	20	26.3%	46.1	$7,042	$35	$202	23.4%	41.0	$3,742	$20	$122	34.7738	-118.48759
112320	CA	Los Angeles	20	25.7%	45.0	$7,076	$35	$208	22.9%	40.1	$3,776	$20	$126	34.44787	-118.41045
170013	CA	Los Angeles	20	27.3%	47.9	$7,041	$35	$195	24.4%	42.8	$3,741	$20	$117	34.64772	-118.09333
165343	CA	Los Angeles	20	26.2%	45.8	$7,041	$35	$204	23.1%	40.5	$3,741	$20	$123	34.79607	-118.69329
170406	CA	Los Angeles	20	27.3%	47.9	$7,054	$35	$195	24.4%	42.8	$3,754	$20	$117	34.58105	-118.04191
170957	CA	Los Angeles	20	27.5%	48.2	$7,042	$35	$193	24.7%	43.3	$3,742	$20	$115	34.6922	-117.97334
168944	CA	Los Angeles	20	26.7%	46.8	$7,047	$35	$199	23.9%	41.8	$3,747	$20	$120	34.66996	-118.23046
170967	CA	Los Angeles	20	27.5%	48.2	$7,043	$35	$194	24.7%	43.2	$3,743	$20	$116	34.76637	-117.97334
169809	CA	Los Angeles	20	27.2%	47.6	$7,050	$35	$196	24.3%	42.6	$3,750	$20	$117	34.62549	-118.11904
117853	CA	Los Angeles	20	25.7%	45.0	$7,081	$35	$208	22.9%	40.1	$3,781	$20	$126	34.13058	-117.70765
110612	CA	Los Angeles	20	25.5%	44.7	$7,150	$35	$212	22.7%	39.7	$3,850	$20	$129	34.38875	-118.62472
167870	CA	Los Angeles	20	26.5%	46.4	$7,107	$35	$203	23.6%	41.3	$3,807	$20	$123	34.65513	-118.3676
111034	CA	Los Angeles	20	25.5%	44.6	$7,080	$35	$210	22.7%	39.7	$3,780	$20	$127	34.49224	-118.5733
169274	CA	Los Angeles	20	27.2%	47.7	$7,055	$35	$196	24.3%	42.6	$3,755	$20	$117	34.6329	-118.18761
65475	CA	Los Angeles	20	24.1%	42.2	$7,084	$35	$222	21.5%	37.6	$3,784	$20	$134	33.99811	-117.8105
65338	CA	Los Angeles	20	23.9%	41.9	$7,062	$35	$224	21.3%	37.3	$3,762	$20	$135	33.99076	-117.82764
169472	CA	Los Angeles	20	27.2%	47.7	$7,057	$35	$196	24.3%	42.6	$3,757	$20	$118	34.61067	-118.1619
170281	CA	Los Angeles	20	27.3%	47.8	$7,046	$35	$195	24.4%	42.8	$3,746	$20	$117	34.64772	-118.05905
165068	CA	Los Angeles	20	26.2%	45.9	$7,093	$35	$205	23.2%	40.7	$3,793	$20	$124	34.74411	-118.72757
165010	CA	Los Angeles	20	25.8%	45.1	$7,047	$35	$207	22.7%	39.8	$3,747	$20	$126	34.81091	-118.73614
172952	CA	Los Angeles	20	27.6%	48.4	$7,042	$35	$193	24.7%	43.3	$3,742	$20	$115	34.58105	-117.71622
65538	CA	Los Angeles	20	23.9%	41.9	$7,075	$35	$224	21.3%	37.3	$3,775	$20	$135	33.96135	-117.80192
363847	CA	Madera	20	24.4%	42.8	$7,048	$35	$218	21.4%	37.5	$3,748	$20	$133	36.97843	-120.18461
365491	CA	Madera	20	24.2%	42.4	$7,051	$35	$220	21.2%	37.1	$3,751	$20	$135	36.93265	-119.97034
409597	CA	Madera	20	24.3%	42.5	$7,060	$35	$220	21.2%	37.1	$3,760	$20	$135	37.09298	-120.20175
409270	CA	Madera	20	24.3%	42.5	$7,065	$35	$220	21.2%	37.1	$3,765	$20	$135	37.0777	-120.2446
409271	CA	Madera	20	24.3%	42.5	$7,047	$35	$220	21.2%	37.1	$3,747	$20	$135	37.08534	-120.2446
362378	CA	Madera	20	23.6%	41.3	$7,048	$35	$226	21.1%	37.0	$3,748	$20	$135	36.8488	-120.37316
362377	CA	Madera	20	23.6%	41.4	$7,049	$35	$226	21.1%	36.9	$3,749	$20	$136	36.84118	-120.37316
366678	CA	Madera	20	24.3%	42.5	$7,042	$35	$220	21.2%	37.1	$3,742	$20	$135	36.92502	-119.81606
409914	CA	Madera	20	24.1%	42.2	$7,057	$35	$222	21.0%	36.8	$3,757	$20	$136	37.03187	-120.15889
410110	CA	Madera	20	24.0%	42.0	$7,065	$35	$223	20.9%	36.6	$3,765	$20	$137	37.0395	-120.13318
409208	CA	Madera	20	24.3%	42.5	$7,054	$35	$220	21.3%	37.2	$3,754	$20	$134	37.10063	-120.25317
409407	CA	Madera	20	24.1%	42.2	$7,055	$35	$221	21.0%	36.8	$3,755	$20	$136	37.13121	-120.22746
414361	CA	Madera	20	24.0%	42.0	$7,045	$35	$222	20.9%	36.6	$3,745	$20	$136	37.23834	-119.57608
414165	CA	Madera	20	24.0%	42.1	$7,060	$35	$222	20.9%	36.7	$3,760	$20	$137	37.23068	-119.60179
414686	CA	Madera	20	24.2%	42.5	$7,076	$35	$221	21.2%	37.1	$3,776	$20	$136	37.23834	-119.53323
409012	CA	Madera	20	24.0%	42.0	$7,074	$35	$223	21.0%	36.7	$3,774	$20	$137	37.09298	-120.27888

				Base Case One-Axis Tracking Crystalline Solar PV					**Sensitivity Case** 20 Degree Fixed Tilt Thin Film Solar PV						
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
409077	CA	Madera	20	24.2%	42.4	$7,077	$35	$221	21.1%	37.0	$3,777	$20	$136	37.09298	-120.27031
408037	CA	Madera	20	24.1%	42.2	$7,075	$35	$222	21.0%	36.9	$3,775	$20	$137	37.09298	-120.40745
364631	CA	Madera	20	24.8%	43.5	$7,084	$35	$216	21.8%	38.3	$3,784	$20	$132	36.9174	-120.08176
362050	CA	Madera	20	22.9%	40.2	$7,081	$35	$234	20.5%	35.9	$3,781	$20	$140	36.86404	-120.41602
364566	CA	Madera	20	24.3%	42.6	$7,054	$35	$220	21.3%	37.3	$3,754	$20	$134	36.92502	-120.09033
364963	CA	Madera	20	24.2%	42.4	$7,050	$35	$220	21.2%	37.1	$3,750	$20	$135	36.93265	-120.0389
362641	CA	Madera	20	23.7%	41.6	$7,059	$35	$225	21.1%	37.0	$3,759	$20	$135	36.84118	-120.33888
362507	CA	Madera	20	24.1%	42.3	$7,073	$35	$222	21.5%	37.6	$3,773	$20	$134	36.82595	-120.35602
413718	CA	Madera	20	24.0%	42.1	$7,074	$35	$223	20.9%	36.7	$3,774	$20	$137	37.29196	-119.66179
366809	CA	Madera	20	24.6%	43.2	$7,057	$35	$217	21.6%	37.8	$3,757	$20	$133	36.9174	-119.79892
410178	CA	Madera	20	24.0%	42.0	$7,064	$35	$223	20.9%	36.6	$3,764	$20	$137	37.06242	-120.12461
410243	CA	Madera	20	24.0%	42.0	$7,064	$35	$223	20.9%	36.6	$3,764	$20	$137	37.06242	-120.11604
366671	CA	Madera	20	24.3%	42.5	$7,057	$35	$220	21.2%	37.1	$3,757	$20	$135	36.87166	-119.81606
366605	CA	Madera	20	24.5%	43.0	$7,059	$35	$218	21.4%	37.6	$3,759	$20	$133	36.87166	-119.82463
365617	CA	Madera	20	24.2%	42.3	$7,048	$35	$221	21.1%	36.9	$3,748	$20	$135	36.8869	-119.95319
481524	CA	Marin	20	25.0%	43.8	$7,140	$35	$216	22.2%	38.8	$3,840	$20	$132	38.08548	-122.70442
482925	CA	Marin	20	22.6%	39.6	$7,054	$35	$236	20.0%	35.0	$3,754	$20	$143	38.03128	-122.51586
482994	CA	Marin	20	22.6%	39.6	$7,077	$35	$237	20.0%	35.0	$3,777	$20	$144	38.06999	-122.50729
482990	CA	Marin	20	22.6%	39.6	$7,122	$35	$238	20.0%	35.0	$3,822	$20	$145	38.03902	-122.50729
481270	CA	Marin	20	23.5%	41.2	$7,088	$35	$228	20.6%	36.1	$3,788	$20	$140	38.10097	-122.7387
481785	CA	Marin	20	21.7%	38.1	$7,071	$35	$246	19.2%	33.6	$3,771	$20	$150	38.12422	-122.67014
455680	CA	Mariposa	20	23.9%	41.9	$7,047	$35	$223	20.9%	36.7	$3,747	$20	$136	37.57604	-120.12461
454898	CA	Mariposa	20	24.2%	42.4	$7,070	$35	$221	21.2%	37.1	$3,770	$20	$135	37.56066	-120.22746
454897	CA	Mariposa	20	24.2%	42.4	$7,073	$35	$221	21.2%	37.1	$3,773	$20	$135	37.55297	-120.22746
456924	CA	Mariposa	20	24.0%	42.0	$7,105	$35	$224	21.0%	36.8	$3,805	$20	$138	37.6453	-119.96176
457039	CA	Mariposa	20	24.0%	42.0	$7,046	$35	$222	21.0%	36.8	$3,746	$20	$136	37.5299	-119.94462
551954	CA	Mendocino	20	23.5%	41.1	$7,052	$35	$227	20.6%	36.0	$3,752	$20	$139	39.3198	-123.77577
585656	CA	Mendocino	20	24.2%	42.4	$7,063	$35	$221	21.5%	37.7	$3,763	$20	$133	39.79424	-123.25295
552509	CA	Mendocino	20	23.5%	41.2	$7,055	$35	$227	20.6%	36.1	$3,755	$20	$139	39.1545	-123.69863
551841	CA	Mendocino	20	23.6%	41.4	$7,050	$35	$226	20.7%	36.3	$3,750	$20	$138	39.4381	-123.79291
516118	CA	Mendocino	20	24.6%	43.0	$7,092	$35	$218	21.7%	38.0	$3,792	$20	$133	38.84855	-123.57864
516686	CA	Mendocino	20	24.6%	43.0	$7,051	$35	$217	21.7%	38.0	$3,751	$20	$132	38.78595	-123.5015
556335	CA	Mendocino	20	24.0%	42.0	$7,103	$35	$224	21.1%	37.0	$3,803	$20	$137	39.04452	-123.18438
556292	CA	Mendocino	20	23.6%	41.3	$7,048	$35	$226	20.7%	36.3	$3,748	$20	$138	39.20955	-123.19295
583692	CA	Mendocino	20	24.2%	42.4	$7,064	$35	$221	21.5%	37.7	$3,764	$20	$133	39.70701	-123.51864
556161	CA	Mendocino	20	24.0%	42.0	$7,049	$35	$222	21.1%	37.0	$3,749	$20	$135	39.18595	-123.2101
555969	CA	Mendocino	20	23.7%	41.4	$7,050	$35	$225	20.8%	36.4	$3,750	$20	$137	39.18595	-123.23581
556040	CA	Mendocino	20	23.9%	41.8	$7,058	$35	$223	21.0%	36.9	$3,758	$20	$136	39.24103	-123.22724
556166	CA	Mendocino	20	23.5%	41.2	$7,059	$35	$227	20.6%	36.1	$3,759	$20	$139	39.22529	-123.2101
554417	CA	Mendocino	20	23.5%	41.2	$7,048	$35	$227	20.6%	36.1	$3,748	$20	$138	39.06022	-123.44151
556111	CA	Mendocino	20	23.5%	41.1	$7,107	$35	$229	20.7%	36.2	$3,807	$20	$140	39.29616	-123.21867
515678	CA	Mendocino	20	24.1%	42.2	$7,055	$35	$222	21.2%	37.1	$3,755	$20	$135	38.9112	-123.63863
555100	CA	Mendocino	20	23.6%	41.4	$7,061	$35	$226	20.7%	36.3	$3,761	$20	$138	39.39864	-123.3558
358364	CA	Merced	20	22.8%	40.0	$7,049	$35	$233	20.4%	35.8	$3,749	$20	$140	36.94028	-120.89598
404911	CA	Merced	20	21.4%	37.4	$7,045	$35	$249	18.9%	33.1	$3,745	$20	$151	37.04714	-120.81884
407534	CA	Merced	20	24.1%	42.2	$7,044	$35	$221	21.1%	36.9	$3,744	$20	$135	37.22303	-120.47601
406966	CA	Merced	20	24.1%	42.2	$7,048	$35	$222	21.0%	36.8	$3,748	$20	$136	37.35329	-120.55315
407032	CA	Merced	20	24.1%	42.2	$7,050	$35	$222	21.0%	36.8	$3,750	$20	$136	37.36096	-120.54458
405487	CA	Merced	20	23.2%	40.6	$7,046	$35	$230	20.6%	36.1	$3,746	$20	$138	37.4761	-120.75028
405486	CA	Merced	20	23.4%	41.0	$7,047	$35	$228	20.8%	36.4	$3,747	$20	$137	37.46842	-120.75028
406714	CA	Merced	20	24.1%	42.2	$7,056	$35	$221	21.1%	37.0	$3,756	$20	$135	37.41467	-120.58743
406715	CA	Merced	20	24.2%	42.4	$7,058	$35	$220	21.2%	37.2	$3,758	$20	$135	37.42235	-120.58743
403021	CA	Merced	20	24.4%	42.7	$7,116	$35	$221	21.2%	37.2	$3,816	$20	$137	37.00896	-121.0674
356186	CA	Merced	20	22.5%	39.3	$7,117	$35	$239	20.0%	35.1	$3,817	$20	$145	36.94028	-121.17882
360084	CA	Merced	20	22.9%	40.2	$7,048	$35	$233	20.5%	35.9	$3,748	$20	$139	36.97079	-120.67314
407420	CA	Merced	20	24.1%	42.2	$7,050	$35	$221	21.1%	36.9	$3,750	$20	$135	37.34562	-120.49315
407225	CA	Merced	20	24.1%	42.2	$7,050	$35	$222	21.0%	36.8	$3,750	$20	$136	37.34562	-120.51887
407329	CA	Merced	20	24.3%	42.5	$7,070	$35	$220	21.2%	37.1	$3,770	$20	$135	37.1465	-120.50172
405474	CA	Merced	20	23.1%	40.4	$7,051	$35	$231	20.4%	35.8	$3,751	$20	$140	37.3763	-120.75028
403571	CA	Merced	20	24.4%	42.8	$7,046	$35	$218	21.3%	37.4	$3,746	$20	$134	37.23834	-120.99883
404830	CA	Merced	20	24.1%	42.2	$7,047	$35	$221	21.0%	36.8	$3,747	$20	$136	37.42235	-120.83599
406614	CA	Merced	20	24.1%	42.3	$7,082	$35	$222	21.1%	37.0	$3,782	$20	$136	37.1465	-120.596
409090	CA	Merced	20	24.3%	42.5	$7,046	$35	$220	21.3%	37.2	$3,746	$20	$134	37.19241	-120.27031
409025	CA	Merced	20	24.2%	42.4	$7,046	$35	$220	21.1%	37.0	$3,746	$20	$135	37.19241	-120.27888
405409	CA	Merced	20	23.4%	40.9	$7,049	$35	$228	20.6%	36.1	$3,749	$20	$139	37.3763	-120.75885
405537	CA	Merced	20	24.0%	42.1	$7,050	$35	$222	21.3%	37.3	$3,750	$20	$134	37.36096	-120.74171
403416	CA	Merced	20	24.5%	42.9	$7,046	$35	$217	21.4%	37.6	$3,746	$20	$133	37.04714	-121.01597
453982	CA	Merced	20	23.9%	41.9	$7,061	$35	$223	20.9%	36.7	$3,761	$20	$137	37.51452	-120.34745
407345	CA	Merced	20	24.0%	42.0	$7,049	$35	$222	20.9%	36.6	$3,749	$20	$137	37.26898	-120.50172
407409	CA	Merced	20	24.0%	42.0	$7,049	$35	$222	20.9%	36.6	$3,749	$20	$137	37.26132	-120.49315
359288	CA	Merced	20	24.1%	42.2	$7,048	$35	$221	21.4%	37.5	$3,748	$20	$133	36.94028	-120.77599
402721	CA	Merced	20	24.3%	42.6	$7,077	$35	$220	21.2%	37.2	$3,777	$20	$135	37.20006	-121.11025
453853	CA	Merced	20	23.8%	41.7	$7,067	$35	$225	20.7%	36.3	$3,767	$20	$138	37.52221	-120.36459
358964	CA	Merced	20	22.3%	39.1	$7,047	$35	$239	19.9%	34.9	$3,747	$20	$143	36.98606	-120.81884
403035	CA	Merced	20	24.4%	42.7	$7,101	$35	$220	21.2%	37.2	$3,801	$20	$136	37.11592	-121.0674
408842	CA	Merced	20	24.1%	42.2	$7,061	$35	$222	21.0%	36.9	$3,761	$20	$136	37.2843	-120.3046
405475	CA	Merced	20	23.6%	41.4	$7,056	$35	$226	20.9%	36.7	$3,756	$20	$137	37.38398	-120.75028
406119	CA	Merced	20	24.0%	42.1	$7,065	$35	$222	21.3%	37.3	$3,765	$20	$135	37.33796	-120.66457
359279	CA	Merced	20	23.6%	41.3	$7,061	$35	$227	21.1%	36.9	$3,761	$20	$136	36.87166	-120.77599
359345	CA	Merced	20	23.2%	40.6	$7,081	$35	$231	20.8%	36.4	$3,781	$20	$138	36.87166	-120.76742
403486	CA	Merced	20	24.4%	42.8	$7,043	$35	$218	21.4%	37.4	$3,743	$20	$133	37.08534	-121.0074
406211	CA	Merced	20	24.1%	42.3	$7,044	$35	$221	21.1%	37.0	$3,744	$20	$135	37.04714	-120.64743
404063	CA	Merced	20	27.0%	47.2	$7,047	$35	$198	24.3%	42.6	$3,747	$20	$117	37.02423	-120.93026
700282	CA	Modoc	20	22.9%	40.1	$7,049	$35	$233	20.1%	35.2	$3,749	$20	$142	41.20533	-120.97312
703549	CA	Modoc	20	23.0%	40.3	$7,044	$35	$231	20.4%	35.7	$3,744	$20	$140	41.48142	-120.51887
703550	CA	Modoc	20	23.0%	40.3	$7,044	$35	$231	20.4%	35.7	$3,744	$20	$140	41.48956	-120.51887
701103	CA	Modoc	20	23.4%	40.9	$7,042	$35	$228	20.7%	36.3	$3,742	$20	$138	41.43262	-120.8617
701164	CA	Modoc	20	23.0%	40.3	$7,044	$35	$231	20.4%	35.7	$3,744	$20	$140	41.43262	-120.85313
737899	CA	Modoc	20	23.3%	40.7	$7,068	$35	$230	20.7%	36.3	$3,768	$20	$138	41.53841	-120.18461
729363	CA	Modoc	20	23.1%	40.5	$7,133	$35	$233	20.5%	35.9	$3,833	$20	$142	41.571	-121.38452
735848	CA	Modoc	20	23.4%	41.0	$7,050	$35	$228	20.8%	36.4	$3,750	$20	$137	41.72602	-120.47601
735909	CA	Modoc	20	23.0%	40.3	$7,052	$35	$232	20.5%	35.8	$3,752	$20	$140	41.72602	-120.46744
706336	CA	Modoc	20	22.9%	40.1	$7,064	$35	$234	20.2%	35.4	$3,764	$20	$142	41.32699	-120.12461

			Base Case: One-Axis Tracking Crystalline Solar PV						Sensitivity Case: 20 Degree Fixed Tilt Thin Film Solar PV							
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
737086	CA	Modoc	20	23.3%	40.7	$7,077	$35	$230	20.7%	36.2	$3,777	$20	$139	41.87322	-120.3046
702694	CA	Modoc	20	23.0%	40.3	$7,041	$35	$231	20.4%	35.7	$3,741	$20	$140	41.47329	-120.63886
702755	CA	Modoc	20	22.9%	40.1	$7,043	$35	$233	20.2%	35.4	$3,743	$20	$141	41.47329	-120.63029
732710	CA	Modoc	20	23.0%	40.4	$7,085	$35	$232	20.5%	35.9	$3,785	$20	$141	41.50584	-120.91312
703336	CA	Modoc	20	23.0%	40.3	$7,041	$35	$231	20.4%	35.7	$3,741	$20	$140	41.23775	-120.54458
698818	CA	Modoc	20	18.9%	33.1	$7,040	$35	$282	16.5%	28.9	$3,740	$20	$173	41.20533	-121.17882
729522	CA	Modoc	20	23.3%	40.9	$7,042	$35	$228	20.7%	36.3	$3,742	$20	$138	41.87322	-121.36737
729042	CA	Modoc	20	23.0%	40.2	$7,041	$35	$232	20.3%	35.6	$3,741	$20	$140	41.93875	-121.43594
729352	CA	Modoc	20	23.1%	40.5	$7,043	$35	$231	20.5%	35.9	$3,743	$20	$139	41.97974	-121.39309
700922	CA	Modoc	20	23.1%	40.5	$7,045	$35	$231	20.4%	35.7	$3,745	$20	$140	41.44888	-120.88741
736642	CA	Modoc	20	23.3%	40.7	$7,041	$35	$229	20.7%	36.2	$3,741	$20	$138	41.73418	-120.36459
736581	CA	Modoc	20	23.0%	40.3	$7,043	$35	$232	20.5%	35.8	$3,743	$20	$139	41.73418	-120.37316
465504	CA	Mono	20	24.1%	42.3	$7,087	$35	$222	21.2%	37.1	$3,787	$20	$136	37.6453	-118.83042
465569	CA	Mono	20	24.0%	42.0	$7,092	$35	$224	21.0%	36.8	$3,792	$20	$137	37.6453	-118.82185
468759	CA	Mono	20	24.2%	42.4	$7,058	$35	$220	21.3%	37.3	$3,758	$20	$134	37.68381	-118.40188
427005	CA	Mono	20	24.1%	42.2	$7,043	$35	$221	21.0%	36.8	$3,743	$20	$136	37.49915	-117.91335
463528	CA	Mono	20	24.1%	42.3	$7,052	$35	$221	21.2%	37.1	$3,752	$20	$135	37.94619	-119.09611
507951	CA	Mono	20	24.1%	42.2	$7,072	$35	$222	21.2%	37.1	$3,772	$20	$136	38.04676	-119.16468
508076	CA	Mono	20	24.2%	42.3	$7,052	$35	$221	21.3%	37.3	$3,752	$20	$134	38.02354	-119.14754
463464	CA	Mono	20	24.1%	42.3	$7,101	$35	$222	21.2%	37.1	$3,801	$20	$137	37.95392	-119.10468
463392	CA	Mono	20	24.1%	42.3	$7,104	$35	$223	21.2%	37.1	$3,804	$20	$137	37.89982	-119.11326
463776	CA	Mono	20	23.9%	42.0	$7,109	$35	$224	21.0%	36.8	$3,809	$20	$138	37.85348	-119.06183
463841	CA	Mono	20	23.9%	42.0	$7,111	$35	$224	21.0%	36.8	$3,811	$20	$138	37.85348	-119.05326
466015	CA	Mono	20	24.1%	42.2	$7,077	$35	$222	21.1%	36.9	$3,777	$20	$136	37.57604	-118.76185
466016	CA	Mono	20	24.2%	42.3	$7,080	$35	$222	21.1%	37.0	$3,780	$20	$136	37.58373	-118.76185
423494	CA	Mono	20	24.1%	42.2	$7,059	$35	$222	21.0%	36.8	$3,759	$20	$136	37.49147	-118.37617
310619	CA	Monterey	20	25.0%	43.9	$7,046	$35	$213	22.3%	39.2	$3,746	$20	$128	36.23416	-121.09311
352714	CA	Monterey	20	23.7%	41.5	$7,064	$35	$225	20.7%	36.4	$3,764	$20	$138	36.63578	-121.6245
308211	CA	Monterey	20	26.8%	47.0	$7,046	$35	$199	24.1%	42.2	$3,746	$20	$118	36.49156	-121.41023
351939	CA	Monterey	20	23.8%	41.6	$7,044	$35	$224	20.7%	36.3	$3,744	$20	$138	36.76505	-121.72735
351808	CA	Monterey	20	23.8%	41.6	$7,049	$35	$224	20.7%	36.3	$3,749	$20	$138	36.77266	-121.74449
261957	CA	Monterey	20	25.3%	44.2	$7,117	$35	$213	22.5%	39.4	$3,817	$20	$129	35.797	-120.33031
353366	CA	Monterey	20	23.5%	41.3	$7,057	$35	$227	20.7%	36.2	$3,757	$20	$138	36.57503	-121.53879
351612	CA	Monterey	20	23.8%	41.6	$7,049	$35	$224	20.7%	36.3	$3,749	$20	$138	36.78788	-121.7702
351678	CA	Monterey	20	23.8%	41.6	$7,049	$35	$224	20.7%	36.3	$3,749	$20	$138	36.78788	-121.76163
352840	CA	Monterey	20	23.8%	41.6	$7,064	$35	$225	20.9%	36.5	$3,764	$20	$137	36.59021	-121.60736
352726	CA	Monterey	20	23.8%	41.7	$7,043	$35	$224	20.9%	36.7	$3,743	$20	$136	36.727	-121.6245
307684	CA	Monterey	20	26.6%	46.6	$7,063	$35	$201	23.8%	41.7	$3,763	$20	$120	36.49915	-121.4788
352419	CA	Monterey	20	24.7%	43.3	$7,062	$35	$216	21.9%	38.4	$3,762	$20	$130	36.90215	-121.66735
309999	CA	Monterey	20	24.8%	43.4	$7,048	$35	$215	22.1%	38.7	$3,748	$20	$129	36.0379	-121.17025
352596	CA	Monterey	20	23.5%	41.2	$7,050	$35	$227	20.8%	36.4	$3,750	$20	$137	36.74222	-121.64164
305626	CA	Monterey	20	26.6%	46.6	$7,071	$35	$201	23.8%	41.7	$3,771	$20	$121	36.40819	-121.74449
309122	CA	Monterey	20	24.4%	42.8	$7,046	$35	$218	21.8%	38.3	$3,746	$20	$131	36.39305	-121.29024
309374	CA	Monterey	20	24.8%	43.4	$7,071	$35	$216	22.1%	38.7	$3,771	$20	$130	36.30222	-121.25595
351537	CA	Monterey	20	23.8%	41.7	$7,047	$35	$224	20.8%	36.4	$3,747	$20	$137	36.7194	-121.77877
350856	CA	Monterey	20	22.6%	39.6	$7,059	$35	$236	20.2%	35.3	$3,759	$20	$142	36.55984	-121.86448
352252	CA	Monterey	20	24.1%	42.3	$7,054	$35	$221	21.1%	37.0	$3,754	$20	$135	36.63578	-121.68449
258296	CA	Monterey	20	27.1%	47.5	$7,059	$35	$197	24.4%	42.8	$3,759	$20	$117	35.9776	-120.8017
352675	CA	Monterey	20	23.7%	41.5	$7,063	$35	$225	20.7%	36.4	$3,763	$20	$138	36.84118	-121.63307
352242	CA	Monterey	20	23.6%	41.4	$7,060	$35	$226	20.6%	36.1	$3,760	$20	$139	36.55984	-121.68449
352798	CA	Monterey	20	23.8%	41.7	$7,060	$35	$224	20.9%	36.7	$3,760	$20	$137	36.77266	-121.61593
257281	CA	Monterey	20	27.4%	48.1	$7,061	$35	$195	24.7%	43.3	$3,761	$20	$116	35.90231	-120.93026
311583	CA	Monterey	20	24.8%	43.4	$7,075	$35	$216	22.2%	38.8	$3,775	$20	$130	36.0379	-120.96455
258282	CA	Monterey	20	26.6%	46.6	$7,075	$35	$201	23.8%	41.7	$3,775	$20	$121	35.87221	-120.8017
308669	CA	Monterey	20	24.5%	42.9	$7,046	$35	$218	21.8%	38.2	$3,746	$20	$131	36.46124	-121.35023
308604	CA	Monterey	20	24.4%	42.7	$7,049	$35	$219	21.7%	38.0	$3,749	$20	$132	36.46882	-121.3588
309057	CA	Monterey	20	24.5%	42.9	$7,055	$35	$218	21.9%	38.3	$3,755	$20	$131	36.40062	-121.29881
352842	CA	Monterey	20	23.5%	41.1	$7,051	$35	$227	20.5%	36.0	$3,751	$20	$139	36.6054	-121.60736
352331	CA	Monterey	20	24.7%	43.3	$7,041	$35	$216	21.9%	38.4	$3,741	$20	$130	36.73461	-121.67592
257157	CA	Monterey	20	27.6%	48.4	$7,060	$35	$193	24.8%	43.4	$3,760	$20	$115	35.9776	-120.94741
484803	CA	Napa	20	23.0%	40.3	$7,056	$35	$232	20.3%	35.5	$3,756	$20	$141	38.20175	-122.26731
484619	CA	Napa	20	22.8%	39.9	$7,053	$35	$234	20.2%	35.3	$3,753	$20	$142	38.26384	-122.29302
525327	CA	Napa	20	23.7%	41.5	$7,054	$35	$225	20.8%	36.4	$3,754	$20	$137	38.79378	-122.34445
525263	CA	Napa	20	23.7%	41.5	$7,059	$35	$226	20.8%	36.4	$3,759	$20	$138	38.79378	-122.35302
526317	CA	Napa	20	23.7%	41.4	$7,054	$35	$226	20.8%	36.4	$3,754	$20	$138	38.52832	-122.20731
526318	CA	Napa	20	23.8%	41.6	$7,059	$35	$225	20.9%	36.6	$3,759	$20	$137	38.53611	-122.20731
526574	CA	Napa	20	23.7%	41.6	$7,081	$35	$226	20.9%	36.6	$3,781	$20	$138	38.53611	-122.17303
484931	CA	Napa	20	23.0%	40.3	$7,138	$35	$234	20.3%	35.5	$3,838	$20	$144	38.20175	-122.25017
485018	CA	Napa	20	23.0%	40.3	$7,058	$35	$232	20.3%	35.5	$3,758	$20	$141	38.38041	-122.2416
484629	CA	Napa	20	22.9%	40.1	$7,064	$35	$233	20.1%	35.3	$3,764	$20	$142	38.34153	-122.29302
483492	CA	Napa	20	22.6%	39.6	$7,042	$35	$236	20.0%	35.0	$3,742	$20	$143	38.45822	-122.44729
484261	CA	Napa	20	22.7%	39.8	$7,095	$35	$236	20.0%	35.1	$3,795	$20	$144	38.466	-122.34445
483686	CA	Napa	20	22.6%	39.7	$7,067	$35	$236	20.0%	35.1	$3,767	$20	$143	38.47379	-122.42158
524142	CA	Napa	20	22.9%	40.2	$7,073	$35	$233	20.2%	35.4	$3,773	$20	$142	38.53611	-122.49872
484244	CA	Napa	20	22.7%	39.8	$7,083	$35	$236	20.0%	35.1	$3,783	$20	$144	38.33376	-122.34445
572824	CA	Nevada	20	23.4%	40.9	$7,144	$35	$231	20.5%	36.0	$3,844	$20	$142	39.36709	-120.98169
579480	CA	Nevada	20	23.3%	40.9	$7,129	$35	$231	20.5%	36.0	$3,829	$20	$142	39.36709	-120.09033
572170	CA	Nevada	20	23.4%	40.9	$7,065	$35	$229	20.5%	36.0	$3,765	$20	$140	39.25678	-121.0674
572105	CA	Nevada	20	23.4%	40.9	$7,065	$35	$229	20.5%	35.9	$3,765	$20	$140	39.24891	-121.07597
579160	CA	Nevada	20	23.3%	40.9	$7,096	$35	$230	20.6%	36.0	$3,796	$20	$140	39.36709	-120.13318
573312	CA	Nevada	20	23.5%	41.1	$7,052	$35	$227	20.7%	36.2	$3,752	$20	$138	39.17809	-120.91312
573314	CA	Nevada	20	23.5%	41.1	$7,056	$35	$227	20.7%	36.2	$3,756	$20	$138	39.19382	-120.91312
572117	CA	Nevada	20	23.4%	40.9	$7,042	$35	$228	20.5%	35.9	$3,742	$20	$139	39.34344	-121.07597
574029	CA	Nevada	20	23.2%	40.7	$7,058	$35	$230	20.4%	35.8	$3,758	$20	$140	39.2804	-120.81884
579609	CA	Nevada	20	23.4%	41.0	$7,080	$35	$229	20.6%	36.1	$3,780	$20	$139	39.37498	-120.07318
571887	CA	Nevada	20	23.7%	41.4	$7,046	$35	$225	20.8%	36.5	$3,746	$20	$137	39.04452	-121.10168
571888	CA	Nevada	20	23.5%	41.2	$7,048	$35	$227	20.6%	36.1	$3,748	$20	$138	39.05237	-121.10168
570694	CA	Nevada	20	23.6%	41.3	$7,063	$35	$227	20.7%	36.3	$3,763	$20	$138	39.22529	-121.26453
571735	CA	Nevada	20	23.7%	41.4	$7,067	$35	$226	20.8%	36.5	$3,767	$20	$138	39.35921	-121.12739
571148	CA	Nevada	20	23.7%	41.4	$7,067	$35	$226	20.8%	36.5	$3,767	$20	$138	39.27253	-121.20453
572441	CA	Nevada	20	23.5%	41.2	$7,093	$35	$228	20.7%	36.2	$3,793	$20	$140	39.37498	-121.03311
572859	CA	Nevada	20	23.4%	40.9	$7,051	$35	$228	20.5%	36.0	$3,751	$20	$139	39.13878	-120.97312
572494	CA	Nevada	20	23.5%	41.2	$7,063	$35	$227	20.7%	36.2	$3,763	$20	$139	39.28828	-121.02454

				Base Case One-Axis Tracking Crystalline Solar PV					**Sensitivity Case** 20 Degree Fixed Tilt Thin Film Solar PV						
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
572661	CA	Nevada	20	23.3%	40.8	$7,047	$35	$229	20.5%	35.8	$3,747	$20	$139	39.09163	-120.99883
578137	CA	Nevada	20	23.5%	41.2	$7,110	$35	$229	20.8%	36.4	$3,810	$20	$139	39.37498	-120.27031
67585	CA	Orange	20	24.2%	42.3	$7,115	$35	$222	21.5%	37.7	$3,815	$20	$135	33.51415	-117.53623
67586	CA	Orange	20	24.2%	42.3	$7,115	$35	$222	21.5%	37.7	$3,815	$20	$135	33.52147	-117.53623
31676	CA	Orange	20	27.0%	47.4	$7,131	$35	$199	24.1%	42.2	$3,831	$20	$121	33.49953	-117.51909
31538	CA	Orange	20	27.0%	47.4	$7,136	$35	$199	24.1%	42.2	$3,836	$20	$121	33.49953	-117.53623
67588	CA	Orange	20	24.2%	42.3	$7,180	$35	$224	21.5%	37.7	$3,880	$20	$137	33.53609	-117.53623
574081	CA	Placer	20	23.1%	40.5	$7,062	$35	$231	20.3%	35.6	$3,762	$20	$141	39.18595	-120.81027
534622	CA	Placer	20	23.2%	40.7	$7,059	$35	$230	20.4%	35.8	$3,759	$20	$140	38.9112	-121.10168
534693	CA	Placer	20	23.5%	41.2	$7,053	$35	$227	20.8%	36.4	$3,753	$20	$138	38.96607	-121.09311
534757	CA	Placer	20	23.2%	40.7	$7,054	$35	$230	20.5%	35.9	$3,754	$20	$139	38.96607	-121.08454
532360	CA	Placer	20	23.5%	41.2	$7,055	$35	$227	20.6%	36.0	$3,755	$20	$139	38.73904	-121.40166
532758	CA	Placer	20	23.5%	41.2	$7,041	$35	$226	20.6%	36.0	$3,741	$20	$139	38.84855	-121.35023
574795	CA	Placer	20	23.1%	40.5	$7,104	$35	$232	20.3%	35.6	$3,804	$20	$142	39.26465	-120.71599
573177	CA	Placer	20	23.5%	41.1	$7,054	$35	$227	20.7%	36.2	$3,754	$20	$138	39.12306	-120.93026
535273	CA	Placer	20	23.5%	41.2	$7,043	$35	$226	20.6%	36.0	$3,743	$20	$139	38.99744	-121.01597
532681	CA	Placer	20	23.5%	41.1	$7,077	$35	$228	20.5%	35.9	$3,777	$20	$140	38.74686	-121.3588
574665	CA	Placer	20	23.2%	40.7	$7,059	$35	$230	20.5%	35.9	$3,759	$20	$140	39.24891	-120.73314
534614	CA	Placer	20	23.7%	41.5	$7,049	$35	$225	20.9%	36.6	$3,749	$20	$137	38.84855	-121.10168
573935	CA	Placer	20	23.6%	41.4	$7,047	$35	$226	20.9%	36.6	$3,747	$20	$136	39.04452	-120.82741
535014	CA	Placer	20	23.5%	41.2	$7,047	$35	$227	20.8%	36.4	$3,747	$20	$137	38.97391	-121.05025
534092	CA	Placer	20	23.5%	41.1	$7,059	$35	$227	20.6%	36.0	$3,759	$20	$139	38.77031	-121.17025
534093	CA	Placer	20	23.5%	41.1	$7,064	$35	$228	20.6%	36.0	$3,764	$20	$139	38.77813	-121.17025
532952	CA	Placer	20	23.5%	41.3	$7,043	$35	$226	20.7%	36.2	$3,743	$20	$138	38.86421	-121.32452
533214	CA	Placer	20	23.5%	41.3	$7,053	$35	$227	20.7%	36.2	$3,753	$20	$138	38.9112	-121.29024
534548	CA	Placer	20	23.3%	40.8	$7,048	$35	$229	20.4%	35.8	$3,748	$20	$140	38.8329	-121.11025
534549	CA	Placer	20	23.3%	40.8	$7,049	$35	$229	20.4%	35.8	$3,749	$20	$140	38.84072	-121.11025
534165	CA	Placer	20	23.5%	41.2	$7,044	$35	$227	20.6%	36.1	$3,744	$20	$138	38.84072	-121.16168
532947	CA	Placer	20	23.6%	41.4	$7,050	$35	$226	20.7%	36.3	$3,750	$20	$138	38.82507	-121.32452
574320	CA	Placer	20	23.2%	40.7	$7,085	$35	$231	20.4%	35.8	$3,785	$20	$141	39.05237	-120.77599
532948	CA	Placer	20	23.7%	41.4	$7,046	$35	$225	20.8%	36.4	$3,746	$20	$137	38.8329	-121.32452
533779	CA	Placer	20	23.5%	41.1	$7,050	$35	$227	20.6%	36.0	$3,750	$20	$139	38.82507	-121.2131
532430	CA	Placer	20	23.6%	41.3	$7,046	$35	$226	20.6%	36.1	$3,746	$20	$138	38.78595	-121.39309
533714	CA	Placer	20	23.7%	41.5	$7,048	$35	$225	20.8%	36.5	$3,748	$20	$137	38.81725	-121.22167
572977	CA	Placer	20	23.5%	41.1	$7,042	$35	$227	20.7%	36.2	$3,742	$20	$138	39.06022	-120.95598
532693	CA	Placer	20	23.4%	41.0	$7,046	$35	$227	20.5%	35.9	$3,746	$20	$139	38.84072	-121.3588
606701	CA	Plumas	20	24.3%	42.6	$7,045	$35	$219	21.6%	37.8	$3,745	$20	$132	39.81804	-120.3903
634444	CA	Plumas	20	22.9%	40.1	$7,054	$35	$233	20.2%	35.3	$3,754	$20	$142	40.17616	-121.05883
633270	CA	Plumas	20	22.9%	40.1	$7,068	$35	$233	20.3%	35.5	$3,768	$20	$141	40.20808	-121.22167
633144	CA	Plumas	20	23.2%	40.7	$7,068	$35	$230	20.6%	36.1	$3,768	$20	$139	40.19212	-121.23881
633073	CA	Plumas	20	23.2%	40.7	$7,097	$35	$231	20.6%	36.1	$3,797	$20	$140	40.12033	-121.24738
633074	CA	Plumas	20	23.2%	40.7	$7,100	$35	$231	20.6%	36.1	$3,800	$20	$140	40.1283	-121.24738
632853	CA	Plumas	20	23.3%	40.8	$7,046	$35	$229	20.6%	36.2	$3,746	$20	$138	40.34392	-121.28167
608589	CA	Plumas	20	24.7%	43.3	$7,048	$35	$216	22.1%	38.6	$3,748	$20	$129	39.80217	-120.13318
633095	CA	Plumas	20	23.2%	40.7	$7,044	$35	$229	20.6%	36.1	$3,744	$20	$138	40.29595	-121.24738
605178	CA	Plumas	20	23.2%	40.7	$7,198	$35	$234	20.4%	35.8	$3,898	$20	$145	39.73079	-120.596
602937	CA	Plumas	20	23.1%	40.5	$7,059	$35	$231	20.3%	35.6	$3,759	$20	$141	39.94516	-120.90455
599278	CA	Plumas	20	23.3%	40.9	$7,071	$35	$229	20.5%	35.9	$3,771	$20	$140	39.90541	-121.40166
634210	CA	Plumas	20	22.9%	40.1	$7,049	$35	$233	20.3%	35.5	$3,749	$20	$141	40.28796	-121.09311
605428	CA	Plumas	20	24.2%	42.4	$7,145	$35	$223	21.5%	37.6	$3,845	$20	$136	39.71494	-120.56172
602558	CA	Plumas	20	23.3%	40.8	$7,088	$35	$230	20.5%	36.0	$3,788	$20	$140	39.93721	-120.95598
604869	CA	Plumas	20	23.1%	40.5	$7,054	$35	$231	20.3%	35.6	$3,754	$20	$141	39.77837	-120.63886
602873	CA	Plumas	20	23.6%	41.4	$7,041	$35	$225	20.9%	36.7	$3,741	$20	$136	39.93721	-120.91312
606134	CA	Plumas	20	24.3%	42.6	$7,043	$35	$219	21.6%	37.8	$3,743	$20	$132	39.81804	-120.46744
606132	CA	Plumas	20	24.3%	42.6	$7,058	$35	$220	21.6%	37.8	$3,758	$20	$133	39.80217	-120.46744
635488	CA	Plumas	20	23.0%	40.3	$7,096	$35	$233	20.3%	35.6	$3,796	$20	$142	40.09641	-120.91312
79105	CA	Riverside	20	27.1%	47.5	$7,077	$35	$198	24.2%	42.4	$3,777	$20	$119	33.71914	-116.08777
67583	CA	Riverside	20	24.7%	43.3	$7,163	$35	$219	22.0%	38.6	$3,863	$20	$133	33.99811	-117.5448
70430	CA	Riverside	20	25.6%	44.8	$7,068	$35	$209	22.9%	40.1	$3,768	$20	$125	33.93196	-117.18483
70147	CA	Riverside	20	25.3%	44.4	$7,075	$35	$211	22.6%	39.6	$3,775	$20	$127	33.85117	-117.21911
77884	CA	Riverside	20	27.7%	48.4	$7,048	$35	$193	24.9%	43.6	$3,748	$20	$115	33.74113	-116.24204
77885	CA	Riverside	20	27.7%	48.4	$7,049	$35	$193	24.9%	43.6	$3,749	$20	$115	33.74846	-116.24204
77942	CA	Riverside	20	26.8%	47.0	$7,063	$35	$199	24.0%	42.0	$3,763	$20	$119	33.66784	-116.23347
78624	CA	Riverside	20	26.9%	47.1	$7,050	$35	$198	24.0%	42.1	$3,750	$20	$119	33.6825	-116.14776
77799	CA	Riverside	20	26.7%	46.8	$7,052	$35	$200	23.8%	41.7	$3,752	$20	$120	33.61658	-116.25061
77732	CA	Riverside	20	27.1%	47.5	$7,052	$35	$197	24.2%	42.4	$3,752	$20	$118	33.62391	-116.25918
70839	CA	Riverside	20	25.6%	44.8	$7,053	$35	$208	22.9%	40.1	$3,753	$20	$125	33.9393	-117.1334
35332	CA	Riverside	20	24.3%	42.6	$7,041	$35	$219	21.9%	38.3	$3,741	$20	$130	33.49222	-117.06484
35401	CA	Riverside	20	25.0%	43.7	$7,044	$35	$213	22.3%	39.1	$3,744	$20	$128	33.49222	-117.05627
70212	CA	Riverside	20	25.3%	44.4	$7,041	$35	$210	22.6%	39.6	$3,741	$20	$126	33.82915	-117.21054
70279	CA	Riverside	20	25.3%	44.4	$7,048	$35	$210	22.6%	39.6	$3,748	$20	$126	33.82181	-117.20197
69262	CA	Riverside	20	25.2%	44.2	$7,051	$35	$212	22.4%	39.3	$3,751	$20	$127	33.84383	-117.33053
69402	CA	Riverside	20	25.2%	44.2	$7,052	$35	$212	22.4%	39.3	$3,752	$20	$127	33.87319	-117.31339
68794	CA	Riverside	20	25.4%	44.5	$7,151	$35	$212	22.8%	39.9	$3,851	$20	$129	33.90257	-117.39053
79038	CA	Riverside	20	26.9%	47.1	$7,070	$35	$199	24.0%	42.1	$3,770	$20	$119	33.72647	-116.09634
43054	CA	Riverside	20	26.7%	46.8	$7,066	$35	$200	23.7%	41.5	$3,766	$20	$121	33.44837	-116.10491
43055	CA	Riverside	20	26.7%	46.8	$7,070	$35	$200	23.7%	41.5	$3,770	$20	$121	33.45568	-116.10491
71211	CA	Riverside	20	25.4%	44.6	$7,048	$35	$209	22.7%	39.8	$3,748	$20	$126	33.67517	-117.08198
75051	CA	Riverside	20	27.4%	48.0	$7,043	$35	$195	24.6%	43.1	$3,743	$20	$116	33.90992	-116.60201
75117	CA	Riverside	20	27.4%	48.0	$7,043	$35	$195	24.6%	43.1	$3,743	$20	$116	33.89523	-116.59344
76871	CA	Riverside	20	27.8%	48.7	$7,057	$35	$192	25.0%	43.8	$3,757	$20	$114	33.79246	-116.3706
75668	CA	Riverside	20	27.8%	48.7	$7,052	$35	$192	25.0%	43.8	$3,752	$20	$114	33.94665	-116.52488
75861	CA	Riverside	20	27.8%	48.7	$7,054	$35	$192	25.0%	43.8	$3,754	$20	$114	33.86585	-116.49916
75725	CA	Riverside	20	27.8%	48.7	$7,055	$35	$192	25.0%	43.8	$3,755	$20	$114	33.86585	-116.51631
72128	CA	Riverside	20	26.8%	47.0	$7,046	$35	$199	23.9%	41.9	$3,746	$20	$119	33.91726	-116.97056
72264	CA	Riverside	20	26.8%	47.0	$7,049	$35	$199	24.0%	42.0	$3,749	$20	$119	33.91726	-116.95342
75525	CA	Riverside	20	27.8%	48.7	$7,044	$35	$192	25.0%	43.8	$3,744	$20	$114	33.89523	-116.54202
75594	CA	Riverside	20	27.8%	48.7	$7,046	$35	$192	25.0%	43.8	$3,746	$20	$114	33.90257	-116.53345
74711	CA	Riverside	20	25.8%	45.3	$7,101	$35	$208	23.1%	40.5	$3,801	$20	$125	33.90992	-116.64487
70778	CA	Riverside	20	25.6%	44.8	$7,125	$35	$210	22.9%	40.1	$3,825	$20	$127	33.99076	-117.14197
67700	CA	Riverside	20	24.5%	43.0	$7,075	$35	$218	21.8%	38.1	$3,775	$20	$132	33.85851	-117.52766
77873	CA	Riverside	20	26.7%	46.8	$7,055	$35	$200	23.8%	41.7	$3,755	$20	$120	33.66052	-116.24204
75327	CA	Riverside	20	26.4%	46.2	$7,042	$35	$202	23.4%	41.1	$3,742	$20	$122	33.9393	-116.56773

				Base Case One-Axis Tracking Crystalline Solar PV					**Sensitivity Case** 20 Degree Fixed Tilt Thin Film Solar PV						
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
83951	CA	Riverside	20	27.0%	47.2	$7,044	$35	$198	24.1%	42.2	$3,744	$20	$118	33.85117	-115.47924
68041	CA	Riverside	20	25.0%	43.8	$7,059	$35	$214	22.3%	39.0	$3,759	$20	$128	33.86585	-117.48481
72918	CA	Riverside	20	26.8%	47.0	$7,066	$35	$199	23.9%	41.9	$3,766	$20	$120	33.72647	-116.86771
72233	CA	Riverside	20	26.8%	47.0	$7,075	$35	$199	23.9%	41.9	$3,775	$20	$120	33.68982	-116.95342
79018	CA	Riverside	20	26.9%	47.1	$7,046	$35	$198	24.0%	42.1	$3,746	$20	$119	33.57999	-116.09634
79832	CA	Riverside	20	26.7%	46.8	$7,041	$35	$199	23.8%	41.8	$3,741	$20	$120	33.56535	-115.99349
71051	CA	Riverside	20	25.6%	44.9	$7,085	$35	$209	23.0%	40.2	$3,785	$20	$125	33.99811	-117.10769
71187	CA	Riverside	20	25.9%	45.4	$7,088	$35	$207	23.2%	40.6	$3,788	$20	$124	33.99811	-117.09055
75054	CA	Riverside	20	27.4%	48.0	$7,053	$35	$195	24.6%	43.1	$3,753	$20	$116	33.93196	-116.60201
34916	CA	Riverside	20	24.3%	42.6	$7,063	$35	$219	21.9%	38.3	$3,763	$20	$131	33.4776	-117.11626
34298	CA	Riverside	20	23.6%	41.3	$7,071	$35	$227	21.1%	36.9	$3,771	$20	$136	33.49953	-117.1934
70566	CA	Riverside	20	25.6%	44.8	$7,051	$35	$208	22.9%	40.1	$3,751	$20	$125	33.93196	-117.16769
70703	CA	Riverside	20	25.6%	44.8	$7,054	$35	$208	22.9%	40.1	$3,754	$20	$125	33.9393	-117.15054
75390	CA	Riverside	20	26.4%	46.2	$7,045	$35	$202	23.4%	41.1	$3,745	$20	$122	33.90257	-116.55916
75253	CA	Riverside	20	27.8%	48.7	$7,044	$35	$192	25.0%	43.8	$3,744	$20	$114	33.89523	-116.5763
75185	CA	Riverside	20	26.7%	46.8	$7,041	$35	$200	23.7%	41.5	$3,741	$20	$120	33.89523	-116.58487
70606	CA	Riverside	20	25.4%	44.5	$7,047	$35	$210	22.6%	39.6	$3,747	$20	$126	33.72647	-117.15911
70674	CA	Riverside	20	25.4%	44.5	$7,048	$35	$210	22.6%	39.6	$3,748	$20	$126	33.72647	-117.15054
77135	CA	Riverside	20	26.4%	46.2	$7,072	$35	$203	23.4%	41.1	$3,772	$20	$122	33.7338	-116.33632
80574	CA	Riverside	20	26.7%	46.8	$7,048	$35	$199	23.8%	41.8	$3,748	$20	$120	33.52147	-115.89921
77616	CA	Riverside	20	27.3%	47.7	$7,046	$35	$196	24.5%	42.9	$3,746	$20	$117	33.77046	-116.27632
43056	CA	Riverside	20	26.7%	46.8	$7,058	$35	$200	23.7%	41.5	$3,758	$20	$121	33.46298	-116.10491
74847	CA	Riverside	20	25.7%	44.9	$7,043	$35	$208	22.9%	40.1	$3,743	$20	$125	33.90992	-116.62773
71533	CA	Riverside	20	26.8%	47.0	$7,043	$35	$198	24.0%	42.0	$3,743	$20	$119	33.54341	-117.03912
71466	CA	Riverside	20	26.8%	47.0	$7,045	$35	$199	24.0%	42.0	$3,745	$20	$119	33.55072	-117.0477
70551	CA	Riverside	20	25.0%	43.9	$7,053	$35	$213	22.3%	39.0	$3,753	$20	$128	33.82181	-117.16769
75330	CA	Riverside	20	27.8%	48.7	$7,041	$35	$192	25.0%	43.8	$3,741	$20	$114	33.96135	-116.56773
75331	CA	Riverside	20	27.8%	48.7	$7,045	$35	$192	25.0%	43.8	$3,745	$20	$114	33.9687	-116.56773
34088	CA	Riverside	20	24.2%	42.5	$7,100	$35	$221	21.8%	38.2	$3,800	$20	$133	33.4776	-117.21911
70589	CA	Riverside	20	25.4%	44.5	$7,053	$35	$210	22.6%	39.6	$3,753	$20	$126	33.60194	-117.15911
70521	CA	Riverside	20	25.4%	44.5	$7,058	$35	$210	22.6%	39.6	$3,758	$20	$126	33.60194	-117.16769
75049	CA	Riverside	20	27.4%	48.0	$7,043	$35	$195	24.6%	43.1	$3,743	$20	$116	33.89523	-116.60201
75457	CA	Riverside	20	26.4%	46.2	$7,042	$35	$202	23.4%	41.1	$3,742	$20	$122	33.89523	-116.55059
74780	CA	Riverside	20	25.8%	45.3	$7,050	$35	$206	23.1%	40.5	$3,750	$20	$123	33.91726	-116.6363
75120	CA	Riverside	20	27.4%	48.0	$7,041	$35	$194	24.6%	43.1	$3,741	$20	$116	33.91726	-116.59344
74915	CA	Riverside	20	26.2%	45.8	$7,042	$35	$204	23.4%	41.0	$3,742	$20	$122	33.90992	-116.61916
76665	CA	Riverside	20	27.8%	48.7	$7,061	$35	$192	25.0%	43.8	$3,761	$20	$114	33.77779	-116.39631
77088	CA	Riverside	20	27.8%	48.7	$7,046	$35	$192	25.0%	43.8	$3,746	$20	$114	33.88788	-116.34489
69506	CA	Riverside	20	25.1%	43.9	$7,046	$35	$213	22.2%	38.9	$3,746	$20	$128	33.63855	-117.29625
69437	CA	Riverside	20	25.1%	43.9	$7,047	$35	$213	22.2%	38.9	$3,747	$20	$128	33.63123	-117.30482
70240	CA	Riverside	20	25.1%	44.0	$7,055	$35	$213	22.3%	39.1	$3,755	$20	$128	33.53609	-117.20197
69970	CA	Riverside	20	25.1%	44.0	$7,060	$35	$213	22.3%	39.1	$3,760	$20	$128	33.55072	-117.23625
72032	CA	Riverside	20	26.8%	47.0	$7,055	$35	$199	23.9%	41.9	$3,755	$20	$119	33.71181	-116.97913
71625	CA	Riverside	20	26.8%	47.0	$7,055	$35	$199	24.0%	42.0	$3,755	$20	$119	33.71914	-117.03055
70172	CA	Riverside	20	25.1%	44.0	$7,057	$35	$213	22.3%	39.1	$3,757	$20	$128	33.53609	-117.21054
76535	CA	Riverside	20	26.4%	46.2	$7,069	$35	$203	23.4%	41.1	$3,769	$20	$122	33.82181	-116.41346
76803	CA	Riverside	20	27.8%	48.7	$7,081	$35	$193	25.0%	43.8	$3,781	$20	$115	33.79246	-116.37917
69741	CA	Riverside	20	25.3%	44.4	$7,066	$35	$211	22.6%	39.6	$3,766	$20	$127	33.86585	-117.27054
69403	CA	Riverside	20	25.2%	44.2	$7,073	$35	$212	22.4%	39.3	$3,773	$20	$128	33.88054	-117.31339
78888	CA	Riverside	20	27.0%	47.2	$7,045	$35	$198	24.1%	42.2	$3,745	$20	$119	33.62391	-116.11348
79291	CA	Riverside	20	26.9%	47.2	$7,052	$35	$198	24.0%	42.1	$3,752	$20	$119	33.58731	-116.06205
76267	CA	Riverside	20	26.4%	46.2	$7,080	$35	$203	23.4%	41.1	$3,780	$20	$123	33.85117	-116.44774
75929	CA	Riverside	20	27.8%	48.7	$7,080	$35	$193	25.0%	43.8	$3,780	$20	$115	33.86585	-116.49059
68642	CA	Riverside	20	24.9%	43.7	$7,084	$35	$215	22.1%	38.7	$3,784	$20	$130	33.78513	-117.40767
68442	CA	Riverside	20	25.0%	43.8	$7,085	$35	$214	22.3%	39.0	$3,785	$20	$129	33.81447	-117.43338
78358	CA	Riverside	20	26.8%	47.0	$7,051	$35	$199	23.9%	41.9	$3,751	$20	$119	33.72647	-116.18204
75671	CA	Riverside	20	27.8%	48.7	$7,053	$35	$192	25.0%	43.8	$3,753	$20	$114	33.9687	-116.52488
79509	CA	Riverside	20	26.6%	46.7	$7,099	$35	$201	23.7%	41.6	$3,799	$20	$122	33.68982	-116.03634
532778	CA	Sacramento	20	23.5%	41.2	$7,063	$35	$227	20.6%	36.0	$3,763	$20	$139	38.50495	-121.34166
491917	CA	Sacramento	20	23.6%	41.4	$7,046	$35	$226	20.6%	36.2	$3,746	$20	$138	38.27938	-121.31595
534073	CA	Sacramento	20	23.5%	41.2	$7,049	$35	$226	20.7%	36.2	$3,749	$20	$138	38.6219	-121.17025
533876	CA	Sacramento	20	23.5%	41.1	$7,045	$35	$227	20.6%	36.0	$3,745	$20	$139	38.58289	-121.19596
531260	CA	Sacramento	20	23.4%	41.0	$7,079	$35	$229	20.5%	36.0	$3,779	$20	$140	38.64531	-121.54736
492948	CA	Sacramento	20	23.4%	41.0	$7,045	$35	$228	20.4%	35.8	$3,745	$20	$139	38.33376	-121.17882
492630	CA	Sacramento	20	23.6%	41.3	$7,052	$35	$226	20.6%	36.0	$3,752	$20	$139	38.3493	-121.22167
492898	CA	Sacramento	20	23.7%	41.5	$7,041	$35	$225	20.7%	36.2	$3,741	$20	$138	38.44265	-121.18739
492382	CA	Sacramento	20	23.5%	41.2	$7,047	$35	$227	20.6%	36.0	$3,747	$20	$139	38.41152	-121.25595
531259	CA	Sacramento	20	23.4%	41.0	$7,065	$35	$228	20.5%	36.0	$3,765	$20	$140	38.63751	-121.54736
531140	CA	Sacramento	20	23.4%	41.0	$7,045	$35	$228	20.5%	36.0	$3,745	$20	$139	38.70778	-121.5645
491224	CA	Sacramento	20	23.7%	41.5	$7,050	$35	$225	20.8%	36.5	$3,750	$20	$137	38.36485	-121.41023
492235	CA	Sacramento	20	23.5%	41.2	$7,057	$35	$227	20.6%	36.0	$3,757	$20	$139	38.26384	-121.2731
532907	CA	Sacramento	20	23.4%	41.0	$7,071	$35	$228	20.5%	35.9	$3,771	$20	$140	38.51274	-121.32452
492129	CA	Sacramento	20	23.6%	41.3	$7,044	$35	$226	20.6%	36.1	$3,744	$20	$139	38.43487	-121.29024
492367	CA	Sacramento	20	23.5%	41.2	$7,046	$35	$227	20.6%	36.0	$3,746	$20	$139	38.29491	-121.25595
491032	CA	Sacramento	20	23.7%	41.5	$7,086	$35	$226	20.8%	36.5	$3,786	$20	$138	38.36485	-121.43594
533547	CA	Sacramento	20	23.5%	41.3	$7,045	$35	$226	20.7%	36.2	$3,745	$20	$138	38.51274	-121.23881
493225	CA	Sacramento	20	23.5%	41.2	$7,047	$35	$227	20.5%	35.9	$3,747	$20	$139	38.49716	-121.14453
491687	CA	Sacramento	20	23.5%	41.2	$7,062	$35	$227	20.6%	36.1	$3,762	$20	$139	38.48158	-121.35023
533421	CA	Sacramento	20	23.5%	41.3	$7,044	$35	$226	20.7%	36.2	$3,744	$20	$138	38.52832	-121.25595
491091	CA	Sacramento	20	23.7%	41.5	$7,050	$35	$225	20.8%	36.5	$3,750	$20	$137	38.32599	-121.42737
493416	CA	Sacramento	20	23.6%	41.3	$7,050	$35	$226	20.6%	36.0	$3,750	$20	$139	38.48937	-121.11882
492236	CA	Sacramento	20	23.5%	41.2	$7,046	$35	$227	20.6%	36.0	$3,746	$20	$139	38.27161	-121.2731
533553	CA	Sacramento	20	23.3%	40.9	$7,074	$35	$229	20.4%	35.8	$3,774	$20	$141	38.5595	-121.23881
491682	CA	Sacramento	20	23.5%	41.2	$7,062	$35	$227	20.6%	36.1	$3,762	$20	$139	38.44265	-121.35023
491024	CA	Sacramento	20	23.7%	41.5	$7,097	$35	$226	20.8%	36.5	$3,797	$20	$139	38.30268	-121.43594
533749	CA	Sacramento	20	23.5%	41.2	$7,050	$35	$227	20.6%	36.1	$3,750	$20	$139	38.59069	-121.2131
533813	CA	Sacramento	20	23.5%	41.1	$7,051	$35	$227	20.6%	36.0	$3,751	$20	$139	38.59069	-121.20453
531138	CA	Sacramento	20	23.5%	41.1	$7,047	$35	$227	20.5%	35.9	$3,747	$20	$139	38.69216	-121.5645
533944	CA	Sacramento	20	23.5%	41.1	$7,054	$35	$227	20.6%	36.0	$3,754	$20	$139	38.6141	-121.18739
491229	CA	Sacramento	20	23.4%	41.0	$7,052	$35	$228	20.5%	36.0	$3,752	$20	$139	38.40374	-121.41023
491617	CA	Sacramento	20	23.5%	41.2	$7,065	$35	$227	20.6%	36.1	$3,765	$20	$139	38.43487	-121.3588
533620	CA	Sacramento	20	23.4%	41.0	$7,058	$35	$228	20.6%	36.0	$3,758	$20	$139	38.58289	-121.23024
491920	CA	Sacramento	20	23.6%	41.4	$7,048	$35	$226	20.6%	36.2	$3,748	$20	$138	38.30268	-121.31595

				Base Case					**Sensitivity Case**						
				One-Axis Tracking Crystalline Solar PV					**20 Degree Fixed Tilt Thin Film Solar PV**						
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
491480	CA	Sacramento	20	23.7%	41.4	$7,060	$35	$226	20.7%	36.3	$3,760	$20	$138	38.36485	-121.37595
354330	CA	San Benito	20	22.5%	39.3	$7,054	$35	$238	20.0%	35.1	$3,754	$20	$143	36.87928	-121.4188
354264	CA	San Benito	20	22.3%	39.1	$7,055	$35	$239	19.9%	34.9	$3,755	$20	$144	36.87928	-121.42737
353666	CA	San Benito	20	22.6%	39.6	$7,047	$35	$236	20.2%	35.3	$3,747	$20	$142	36.8488	-121.50451
353611	CA	San Benito	20	23.5%	41.3	$7,057	$35	$227	20.7%	36.2	$3,757	$20	$138	36.93265	-121.51308
353742	CA	San Benito	20	22.3%	39.1	$7,060	$35	$239	19.9%	34.9	$3,760	$20	$144	36.92502	-121.49594
121771	CA	San Bernardino	20	27.6%	48.3	$7,047	$35	$193	24.6%	43.2	$3,747	$20	$116	34.44048	-117.21911
121706	CA	San Bernardino	20	27.6%	48.3	$7,050	$35	$193	24.6%	43.2	$3,750	$20	$116	34.46266	-117.22768
67175	CA	San Bernardino	20	24.6%	43.1	$7,042	$35	$217	21.9%	38.4	$3,742	$20	$130	33.99811	-117.59623
121145	CA	San Bernardino	20	27.2%	47.6	$7,094	$35	$198	24.3%	42.5	$3,794	$20	$119	34.33705	-117.29625
121146	CA	San Bernardino	20	27.2%	47.6	$7,099	$35	$198	24.3%	42.5	$3,799	$20	$119	34.34443	-117.29625
66552	CA	San Bernardino	20	24.5%	42.9	$7,224	$35	$223	21.8%	38.3	$3,924	$20	$136	33.91726	-117.67336
240446	CA	San Bernardino	20	27.6%	48.3	$7,061	$35	$194	24.7%	43.3	$3,761	$20	$116	35.26512	-116.08777
240448	CA	San Bernardino	20	27.6%	48.3	$7,064	$35	$194	24.7%	43.3	$3,764	$20	$116	35.28005	-116.08777
124347	CA	San Bernardino	20	26.8%	46.9	$7,133	$35	$201	23.9%	42.0	$3,833	$20	$122	34.38136	-116.89342
144241	CA	San Bernardino	20	26.9%	47.1	$7,047	$35	$198	24.1%	42.2	$3,747	$20	$119	34.16004	-114.38218
186303	CA	San Bernardino	20	25.2%	44.1	$7,104	$35	$213	22.1%	38.8	$3,804	$20	$131	34.71444	-116.01063
177646	CA	San Bernardino	20	24.1%	42.2	$7,052	$35	$222	21.5%	37.7	$3,752	$20	$133	34.61067	-117.11626
177579	CA	San Bernardino	20	24.1%	42.2	$7,056	$35	$222	21.5%	37.7	$3,756	$20	$133	34.61067	-117.12483
131394	CA	San Bernardino	20	27.5%	48.1	$7,043	$35	$194	24.7%	43.3	$3,743	$20	$115	34.19689	-116.00206
131393	CA	San Bernardino	20	27.3%	47.8	$7,043	$35	$195	24.6%	43.0	$3,743	$20	$116	34.18952	-116.00206
66834	CA	San Bernardino	20	24.5%	42.9	$7,068	$35	$218	21.8%	38.3	$3,768	$20	$131	33.99076	-117.63908
124552	CA	San Bernardino	20	26.8%	46.9	$7,052	$35	$199	23.9%	42.0	$3,752	$20	$119	34.38875	-116.86771
124621	CA	San Bernardino	20	26.8%	46.9	$7,056	$35	$199	23.9%	42.0	$3,756	$20	$119	34.39614	-116.85914
118585	CA	San Bernardino	20	24.9%	43.6	$7,091	$35	$216	22.1%	38.7	$3,791	$20	$130	34.01282	-117.61337
237669	CA	San Bernardino	20	27.6%	48.4	$7,055	$35	$193	24.8%	43.5	$3,755	$20	$115	35.04142	-116.43917
237534	CA	San Bernardino	20	27.3%	47.9	$7,056	$35	$195	24.5%	42.9	$3,756	$20	$117	35.03398	-116.45631
120263	CA	San Bernardino	20	27.0%	47.3	$7,176	$35	$201	24.1%	42.2	$3,876	$20	$122	34.35182	-117.40767
145621	CA	San Bernardino	20	26.7%	46.7	$7,084	$35	$201	23.9%	41.8	$3,784	$20	$121	34.30753	-114.21076
130435	CA	San Bernardino	20	27.5%	48.1	$7,043	$35	$194	24.7%	43.3	$3,743	$20	$115	34.14531	-116.12205
130436	CA	San Bernardino	20	27.5%	48.1	$7,043	$35	$194	24.7%	43.3	$3,743	$20	$115	34.15268	-116.12205
175835	CA	San Bernardino	20	25.2%	44.1	$7,050	$35	$212	22.4%	39.2	$3,750	$20	$128	34.59586	-117.34767
121630	CA	San Bernardino	20	27.2%	47.7	$7,071	$35	$197	24.3%	42.5	$3,771	$20	$118	34.40353	-117.23625
121629	CA	San Bernardino	20	27.2%	47.6	$7,073	$35	$197	24.3%	42.5	$3,773	$20	$118	34.39614	-117.23625
144011	CA	San Bernardino	20	26.8%	46.9	$7,052	$35	$199	24.0%	42.0	$3,752	$20	$119	34.47005	-114.41646
285001	CA	San Bernardino	20	27.2%	47.6	$7,043	$35	$196	24.5%	43.0	$3,743	$20	$116	35.76694	-117.38196
285000	CA	San Bernardino	20	27.2%	47.6	$7,045	$35	$196	24.5%	43.0	$3,745	$20	$116	35.75943	-117.38196
120942	CA	San Bernardino	20	27.2%	47.6	$7,068	$35	$197	24.3%	42.5	$3,768	$20	$118	34.34443	-117.32196
244695	CA	San Bernardino	20	27.6%	48.4	$7,043	$35	$193	24.8%	43.5	$3,743	$20	$115	35.47445	-115.54781
244761	CA	San Bernardino	20	27.2%	47.6	$7,044	$35	$196	24.4%	42.8	$3,744	$20	$117	35.46697	-115.53924
197174	CA	San Bernardino	20	25.2%	44.1	$7,043	$35	$212	22.1%	38.8	$3,743	$20	$129	34.84062	-114.62216
66149	CA	San Bernardino	20	24.1%	42.1	$7,070	$35	$222	21.4%	37.5	$3,770	$20	$134	33.954	-117.72479
121707	CA	San Bernardino	20	27.6%	48.3	$7,078	$35	$194	24.6%	43.2	$3,778	$20	$117	34.47005	-117.22768
285059	CA	San Bernardino	20	27.7%	48.5	$7,054	$35	$193	25.0%	43.7	$3,754	$20	$115	35.69935	-117.37339
285058	CA	San Bernardino	20	27.7%	48.5	$7,055	$35	$193	25.0%	43.7	$3,755	$20	$115	35.69185	-117.37339
180026	CA	San Bernardino	20	25.0%	43.7	$7,046	$35	$214	21.9%	38.4	$3,746	$20	$130	34.87034	-116.81628
179890	CA	San Bernardino	20	25.6%	44.8	$7,046	$35	$209	22.6%	39.5	$3,746	$20	$126	34.85548	-116.83343
179507	CA	San Bernardino	20	25.6%	44.8	$7,218	$35	$213	22.6%	39.5	$3,918	$20	$132	34.99676	-116.88485
179640	CA	San Bernardino	20	25.6%	44.8	$7,218	$35	$213	22.6%	39.5	$3,918	$20	$132	34.98932	-116.86771
178281	CA	San Bernardino	20	25.8%	45.1	$7,051	$35	$207	22.8%	39.9	$3,751	$20	$125	34.84805	-117.03912
178214	CA	San Bernardino	20	24.1%	42.2	$7,054	$35	$222	21.5%	37.7	$3,754	$20	$133	34.84805	-117.0477
130786	CA	San Bernardino	20	27.5%	48.1	$7,057	$35	$194	24.7%	43.3	$3,757	$20	$116	34.22638	-116.0792
179622	CA	San Bernardino	20	25.6%	44.8	$7,043	$35	$208	22.6%	39.5	$3,743	$20	$126	34.85548	-116.86771
179623	CA	San Bernardino	20	25.6%	44.8	$7,043	$35	$208	22.6%	39.5	$3,743	$20	$126	34.86291	-116.86771
120541	CA	San Bernardino	20	27.5%	48.2	$7,057	$35	$194	24.6%	43.1	$3,757	$20	$116	34.39614	-117.37339
120474	CA	San Bernardino	20	27.0%	47.3	$7,057	$35	$198	24.1%	42.2	$3,757	$20	$119	34.40353	-117.38196
284928	CA	San Bernardino	20	27.1%	47.4	$7,051	$35	$197	24.4%	42.7	$3,751	$20	$117	35.72188	-117.39053
67379	CA	San Bernardino	20	24.7%	43.3	$7,072	$35	$216	22.0%	38.6	$3,772	$20	$130	33.99811	-117.57051
5882	CA	San Diego	20	25.7%	45.1	$7,097	$35	$209	22.8%	40.0	$3,797	$20	$127	32.74973	-116.75629
6142	CA	San Diego	20	25.7%	45.1	$7,065	$35	$208	22.9%	40.1	$3,765	$20	$125	32.66279	-116.722
34714	CA	San Diego	20	24.3%	42.6	$7,063	$35	$219	21.9%	38.3	$3,763	$20	$131	33.01107	-117.1334
41029	CA	San Diego	20	26.8%	46.9	$7,044	$35	$199	23.9%	41.8	$3,744	$20	$119	33.27319	-116.35346
38935	CA	San Diego	20	26.5%	46.3	$7,106	$35	$203	23.6%	41.3	$3,806	$20	$123	33.09836	-116.61058
9677	CA	San Diego	20	27.2%	47.7	$7,045	$35	$196	24.3%	42.5	$3,745	$20	$118	32.65555	-116.27632
7976	CA	San Diego	20	26.7%	46.8	$7,045	$35	$200	23.8%	41.6	$3,745	$20	$120	32.64831	-116.49059
2924	CA	San Diego	20	24.3%	42.6	$7,070	$35	$220	21.9%	38.3	$3,770	$20	$131	32.99653	-117.1334
34645	CA	San Diego	20	24.3%	42.6	$7,081	$35	$220	21.9%	38.3	$3,781	$20	$132	33.01107	-117.14197
36853	CA	San Diego	20	25.2%	44.1	$7,050	$35	$212	22.5%	39.4	$3,750	$20	$127	33.01107	-116.86771
9273	CA	San Diego	20	26.9%	47.1	$7,059	$35	$198	23.9%	41.9	$3,759	$20	$120	32.68452	-116.32775
34092	CA	San Diego	20	24.2%	42.5	$7,071	$35	$221	21.8%	38.2	$3,771	$20	$132	33.0038	-117.21054
7911	CA	San Diego	20	26.2%	46.0	$7,128	$35	$205	23.2%	40.7	$3,828	$20	$125	32.67003	-116.49916
4163	CA	San Diego	20	24.8%	43.4	$7,118	$35	$217	22.1%	38.8	$3,818	$20	$131	32.61211	-116.97056
9417	CA	San Diego	20	27.1%	47.4	$7,059	$35	$197	24.1%	42.2	$3,759	$20	$119	32.74248	-116.31061
33854	CA	San Diego	20	24.2%	42.5	$7,134	$35	$222	21.8%	38.2	$3,834	$20	$134	33.28048	-117.24482
2512	CA	San Diego	20	24.3%	42.5	$7,098	$35	$221	21.8%	38.1	$3,798	$20	$133	32.96746	-117.18483
33786	CA	San Diego	20	24.2%	42.5	$7,070	$35	$221	21.8%	38.2	$3,770	$20	$132	33.28777	-117.25339
33576	CA	San Diego	20	24.2%	42.3	$7,055	$35	$221	21.5%	37.7	$3,755	$20	$133	33.2659	-117.27911
41499	CA	San Diego	20	26.8%	46.9	$7,070	$35	$200	23.9%	41.8	$3,770	$20	$120	33.17844	-116.29347
2444	CA	San Diego	20	24.3%	42.5	$7,057	$35	$220	21.8%	38.1	$3,757	$20	$131	32.96746	-117.1934
4232	CA	San Diego	20	24.8%	43.4	$7,065	$35	$216	22.1%	38.8	$3,765	$20	$130	32.61935	-116.96199
4210	CA	San Diego	20	25.0%	43.8	$7,077	$35	$214	22.4%	39.2	$3,777	$20	$129	32.95293	-116.97056
34370	CA	San Diego	20	25.0%	43.7	$7,062	$35	$214	22.3%	39.1	$3,762	$20	$128	33.01834	-117.17626
34093	CA	San Diego	20	24.7%	43.3	$7,047	$35	$216	22.0%	38.6	$3,747	$20	$129	33.01107	-117.21054
37858	CA	San Diego	20	25.4%	44.6	$7,162	$35	$213	22.7%	39.8	$3,862	$20	$129	33.29506	-116.74772
42937	CA	San Diego	20	26.4%	46.3	$7,042	$35	$202	23.5%	41.2	$3,742	$20	$121	33.09836	-116.11348
34648	CA	San Diego	20	24.3%	42.6	$7,113	$35	$221	21.9%	38.3	$3,813	$20	$133	33.03288	-117.14197
35691	CA	San Diego	20	25.4%	44.5	$7,134	$35	$212	22.7%	39.7	$3,834	$20	$129	33.09108	-117.01341
38403	CA	San Diego	20	26.1%	45.7	$7,040	$35	$204	23.2%	40.7	$3,740	$20	$123	33.24402	-116.67915
4079	CA	San Diego	20	25.0%	43.8	$7,064	$35	$214	22.4%	39.2	$3,764	$20	$128	32.98926	-116.9877
444967	CA	San Joaquin	20	26.2%	46.0	$7,052	$35	$203	23.6%	41.4	$3,752	$20	$121	37.6684	-121.53879
445032	CA	San Joaquin	20	26.2%	46.0	$7,057	$35	$203	23.7%	41.5	$3,757	$20	$121	37.6684	-121.53022
445159	CA	San Joaquin	20	24.0%	42.1	$7,049	$35	$222	20.9%	36.7	$3,749	$20	$136	37.6453	-121.51308
448377	CA	San Joaquin	20	23.7%	41.5	$7,085	$35	$226	20.8%	36.4	$3,785	$20	$139	37.89982	-121.09311

			Base Case: One-Axis Tracking Crystalline Solar PV						Sensitivity Case: 20 Degree Fixed Tilt Thin Film Solar PV						
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
448638	CA	San Joaquin	20	23.7%	41.5	$7,085	$35	$226	20.8%	36.4	$3,785	$20	$139	37.90755	-121.05883
447125	CA	San Joaquin	20	23.7%	41.5	$7,093	$35	$227	20.9%	36.6	$3,793	$20	$138	37.76859	-121.25595
446981	CA	San Joaquin	20	23.6%	41.3	$7,080	$35	$227	20.8%	36.4	$3,780	$20	$138	37.6607	-121.2731
493954	CA	San Joaquin	20	23.6%	41.3	$7,063	$35	$226	20.6%	36.1	$3,763	$20	$139	38.194	-121.04168
445814	CA	San Joaquin	20	23.7%	41.5	$7,050	$35	$225	20.9%	36.6	$3,750	$20	$137	37.68381	-121.42737
492930	CA	San Joaquin	20	23.7%	41.5	$7,043	$35	$225	20.7%	36.2	$3,743	$20	$138	38.194	-121.17882
447139	CA	San Joaquin	20	23.7%	41.5	$7,065	$35	$226	20.7%	36.3	$3,765	$20	$138	37.87664	-121.25595
446879	CA	San Joaquin	20	23.6%	41.3	$7,044	$35	$226	20.8%	36.4	$3,744	$20	$137	37.87664	-121.29024
447903	CA	San Joaquin	20	23.7%	41.5	$7,044	$35	$225	20.8%	36.4	$3,744	$20	$137	37.75317	-121.1531
493045	CA	San Joaquin	20	23.6%	41.3	$7,104	$35	$228	20.6%	36.1	$3,804	$20	$140	38.09322	-121.16168
492473	CA	San Joaquin	20	23.6%	41.3	$7,077	$35	$227	20.6%	36.1	$3,777	$20	$140	38.12422	-121.23881
447134	CA	San Joaquin	20	23.5%	41.3	$7,067	$35	$227	20.6%	36.2	$3,767	$20	$139	37.83804	-121.25595
447263	CA	San Joaquin	20	23.6%	41.4	$7,062	$35	$226	20.7%	36.3	$3,762	$20	$138	37.83032	-121.23881
447652	CA	San Joaquin	20	23.7%	41.6	$7,065	$35	$225	21.0%	36.8	$3,765	$20	$137	37.8226	-121.18739
492015	CA	San Joaquin	20	23.6%	41.4	$7,144	$35	$229	20.6%	36.2	$3,844	$20	$142	38.04676	-121.29881
492149	CA	San Joaquin	20	23.6%	41.3	$7,051	$35	$226	20.6%	36.0	$3,751	$20	$139	38.09322	-121.28167
446388	CA	San Joaquin	20	23.6%	41.3	$7,079	$35	$227	20.8%	36.4	$3,779	$20	$138	37.59912	-121.35023
447349	CA	San Joaquin	20	23.7%	41.6	$7,069	$35	$225	21.0%	36.8	$3,769	$20	$137	37.99259	-121.23024
492143	CA	San Joaquin	20	23.6%	41.3	$7,057	$35	$226	20.6%	36.0	$3,757	$20	$139	38.04676	-121.28167
445428	CA	San Joaquin	20	23.7%	41.5	$7,050	$35	$225	20.7%	36.2	$3,750	$20	$138	37.71463	-121.4788
445234	CA	San Joaquin	20	24.1%	42.2	$7,052	$35	$221	21.0%	36.8	$3,752	$20	$136	37.72233	-121.50451
449398	CA	San Joaquin	20	24.1%	42.3	$7,069	$35	$222	21.2%	37.1	$3,769	$20	$135	37.75317	-120.95598
447204	CA	San Joaquin	20	23.8%	41.7	$7,060	$35	$224	21.0%	36.8	$3,760	$20	$136	37.87664	-121.24738
493051	CA	San Joaquin	20	23.6%	41.3	$7,050	$35	$226	20.6%	36.1	$3,750	$20	$139	38.13972	-121.16168
209641	CA	San Luis Obispo	20	27.4%	47.9	$7,042	$35	$195	24.5%	43.0	$3,742	$20	$116	35.3772	-120.03033
209642	CA	San Luis Obispo	20	27.3%	47.9	$7,044	$35	$195	24.5%	42.9	$3,744	$20	$116	35.38467	-120.03033
203668	CA	San Luis Obispo	20	24.5%	42.9	$7,088	$35	$219	21.4%	37.4	$3,788	$20	$135	35.30246	-120.79313
205642	CA	San Luis Obispo	20	27.5%	48.2	$7,054	$35	$194	24.6%	43.1	$3,754	$20	$116	35.03398	-120.53601
209574	CA	San Luis Obispo	20	27.5%	48.2	$7,043	$35	$194	24.6%	43.1	$3,743	$20	$116	35.3772	-120.0389
209575	CA	San Luis Obispo	20	27.5%	48.2	$7,043	$35	$194	24.6%	43.1	$3,743	$20	$116	35.38467	-120.0389
202886	CA	San Luis Obispo	20	24.8%	43.4	$7,075	$35	$216	21.7%	38.0	$3,775	$20	$132	35.46697	-120.89598
158394	CA	San Luis Obispo	20	25.8%	45.2	$7,045	$35	$206	22.8%	39.9	$3,745	$20	$125	34.93724	-119.58465
204334	CA	San Luis Obispo	20	24.6%	43.2	$7,050	$35	$216	21.5%	37.7	$3,750	$20	$133	35.27258	-120.70742
204198	CA	San Luis Obispo	20	24.9%	43.6	$7,063	$35	$215	21.8%	38.1	$3,763	$20	$132	35.25765	-120.72457
204610	CA	San Luis Obispo	20	24.6%	43.1	$7,048	$35	$217	21.4%	37.6	$3,748	$20	$133	35.33234	-120.67314
204941	CA	San Luis Obispo	20	24.6%	43.1	$7,053	$35	$217	21.5%	37.6	$3,753	$20	$133	35.30246	-120.63029
257595	CA	San Luis Obispo	20	27.2%	47.6	$7,050	$35	$196	24.4%	42.8	$3,750	$20	$117	35.74441	-120.88741
205917	CA	San Luis Obispo	20	27.6%	48.3	$7,046	$35	$193	24.7%	43.3	$3,746	$20	$115	35.08611	-120.50172
205781	CA	San Luis Obispo	20	27.6%	48.3	$7,049	$35	$193	24.7%	43.3	$3,749	$20	$115	35.07121	-120.51887
259317	CA	San Luis Obispo	20	24.2%	42.5	$7,049	$35	$220	21.7%	38.0	$3,749	$20	$132	35.59432	-120.66457
256292	CA	San Luis Obispo	20	27.6%	48.4	$7,057	$35	$193	24.8%	43.4	$3,757	$20	$115	35.51938	-121.05025
204994	CA	San Luis Obispo	20	24.6%	43.1	$7,085	$35	$218	21.5%	37.6	$3,785	$20	$134	35.19794	-120.62172
259271	CA	San Luis Obispo	20	27.0%	47.3	$7,047	$35	$197	24.3%	42.5	$3,747	$20	$117	35.75192	-120.67314
205243	CA	San Luis Obispo	20	24.6%	43.2	$7,051	$35	$216	21.7%	37.9	$3,751	$20	$132	35.05632	-120.58743
259440	CA	San Luis Obispo	20	25.3%	44.3	$7,063	$35	$211	22.4%	39.3	$3,763	$20	$128	35.51189	-120.64743
394599	CA	San Mateo	20	24.3%	42.5	$7,104	$35	$221	21.2%	37.1	$3,804	$20	$137	37.22303	-122.1816
393248	CA	San Mateo	20	24.3%	42.5	$7,143	$35	$222	21.2%	37.1	$3,843	$20	$138	37.33029	-122.36159
153795	CA	Santa Barbara	20	25.2%	44.2	$7,052	$35	$212	22.5%	39.5	$3,752	$20	$127	34.61808	-120.16746
153996	CA	Santa Barbara	20	25.2%	44.2	$7,066	$35	$212	22.5%	39.5	$3,766	$20	$127	34.61808	-120.14175
151816	CA	Santa Barbara	20	24.7%	43.2	$7,059	$35	$216	22.1%	38.8	$3,759	$20	$129	34.84805	-120.42459
151414	CA	Santa Barbara	20	24.7%	43.2	$7,061	$35	$216	22.1%	38.8	$3,761	$20	$129	34.84805	-120.47601
151956	CA	Santa Barbara	20	24.7%	43.2	$7,061	$35	$216	22.1%	38.8	$3,761	$20	$129	34.89263	-120.40745
151957	CA	Santa Barbara	20	24.6%	43.0	$7,062	$35	$218	22.0%	38.6	$3,762	$20	$130	34.90007	-120.40745
154188	CA	Santa Barbara	20	25.1%	43.9	$7,110	$35	$214	22.4%	39.2	$3,810	$20	$129	34.55144	-120.11604
100283	CA	Santa Barbara	20	24.6%	43.1	$7,088	$35	$218	21.9%	38.4	$3,788	$20	$131	34.44048	-119.92748
151993	CA	Santa Barbara	20	24.2%	42.4	$7,112	$35	$222	21.7%	38.1	$3,812	$20	$133	34.66996	-120.39888
151595	CA	Santa Barbara	20	24.5%	42.9	$7,115	$35	$220	21.9%	38.4	$3,815	$20	$132	34.69961	-120.4503
152597	CA	Santa Barbara	20	24.7%	43.3	$7,078	$35	$217	22.2%	38.8	$3,778	$20	$130	34.67737	-120.32174
153475	CA	Santa Barbara	20	25.0%	43.9	$7,112	$35	$215	22.4%	39.2	$3,812	$20	$130	34.72928	-120.21032
152349	CA	Santa Barbara	20	24.9%	43.6	$7,051	$35	$214	22.3%	39.0	$3,751	$20	$128	34.82577	-120.35602
152286	CA	Santa Barbara	20	24.9%	43.6	$7,064	$35	$214	22.3%	39.0	$3,764	$20	$129	34.85548	-120.36459
151662	CA	Santa Barbara	20	24.5%	42.9	$7,044	$35	$218	21.9%	38.4	$3,744	$20	$130	34.69961	-120.44173
151663	CA	Santa Barbara	20	24.5%	42.9	$7,046	$35	$218	21.9%	38.4	$3,746	$20	$130	34.70703	-120.44173
154466	CA	Santa Barbara	20	25.5%	44.6	$7,041	$35	$209	22.8%	39.9	$3,741	$20	$125	34.62549	-120.08176
154467	CA	Santa Barbara	20	25.5%	44.6	$7,045	$35	$209	22.8%	39.9	$3,745	$20	$125	34.6329	-120.08176
152085	CA	Santa Barbara	20	24.9%	43.6	$7,051	$35	$214	22.3%	39.0	$3,751	$20	$128	34.85548	-120.3903
151327	CA	Santa Barbara	20	24.5%	42.9	$7,118	$35	$220	21.9%	38.4	$3,818	$20	$132	34.69961	-120.48458
151464	CA	Santa Barbara	20	24.5%	42.9	$7,124	$35	$220	21.9%	38.4	$3,824	$20	$133	34.72186	-120.46744
151398	CA	Santa Barbara	20	24.5%	42.9	$7,077	$35	$219	21.9%	38.4	$3,777	$20	$131	34.72928	-120.47601
154476	CA	Santa Barbara	20	25.8%	45.2	$7,065	$35	$207	22.9%	40.1	$3,765	$20	$125	34.69961	-120.08176
154474	CA	Santa Barbara	20	25.5%	44.6	$7,073	$35	$210	22.8%	39.9	$3,773	$20	$126	34.68478	-120.08176
398810	CA	Santa Clara	20	24.3%	42.6	$7,070	$35	$220	21.2%	37.1	$3,770	$20	$135	37.11592	-121.6245
398692	CA	Santa Clara	20	24.3%	42.6	$7,074	$35	$220	21.2%	37.1	$3,774	$20	$136	37.20772	-121.64164
353282	CA	Santa Clara	20	23.4%	41.0	$7,082	$35	$229	20.5%	35.9	$3,782	$20	$140	36.94028	-121.55593
353150	CA	Santa Clara	20	23.4%	41.0	$7,085	$35	$229	20.5%	35.9	$3,785	$20	$140	36.94028	-121.57307
398628	CA	Santa Clara	20	24.4%	42.7	$7,128	$35	$221	21.2%	37.2	$3,828	$20	$137	37.21537	-121.65021
398799	CA	Santa Clara	20	24.4%	42.8	$7,073	$35	$219	21.3%	37.3	$3,773	$20	$135	37.03187	-121.6245
351231	CA	Santa Cruz	20	24.2%	42.5	$7,050	$35	$220	21.2%	37.1	$3,750	$20	$135	36.90215	-121.82163
395092	CA	Santa Cruz	20	24.4%	42.7	$7,097	$35	$220	21.2%	37.2	$3,797	$20	$136	37.01659	-122.11303
395821	CA	Santa Cruz	20	24.4%	42.7	$7,076	$35	$219	21.2%	37.2	$3,776	$20	$135	37.12356	-122.01875
351567	CA	Santa Cruz	20	23.8%	41.7	$7,053	$35	$224	20.8%	36.4	$3,753	$20	$138	36.94791	-121.77877
351570	CA	Santa Cruz	20	23.8%	41.7	$7,057	$35	$224	20.8%	36.4	$3,757	$20	$138	36.97079	-121.77877
350975	CA	Santa Cruz	20	22.6%	39.6	$7,053	$35	$236	20.2%	35.3	$3,753	$20	$142	36.96316	-121.85591
351041	CA	Santa Cruz	20	24.3%	42.6	$7,054	$35	$219	21.2%	37.2	$3,754	$20	$135	36.96316	-121.84734
395872	CA	Santa Cruz	20	24.2%	42.4	$7,070	$35	$221	21.1%	36.9	$3,770	$20	$136	37.01659	-122.01018
658050	CA	Shasta	20	22.8%	39.9	$7,047	$35	$234	20.1%	35.1	$3,747	$20	$142	40.51211	-122.3273
657925	CA	Shasta	20	20.2%	35.4	$7,055	$35	$264	17.6%	30.9	$3,755	$20	$162	40.52013	-122.34445
625424	CA	Shasta	20	22.9%	40.0	$7,048	$35	$233	20.2%	35.4	$3,748	$20	$141	40.43197	-122.31016
658138	CA	Shasta	20	22.7%	39.8	$7,163	$35	$238	20.0%	35.1	$3,863	$20	$146	40.71288	-122.31873
622136	CA	Shasta	20	23.0%	40.3	$7,106	$35	$233	20.3%	35.5	$3,806	$20	$143	40.41595	-122.76441
660697	CA	Shasta	20	22.8%	39.9	$7,051	$35	$234	20.1%	35.2	$3,751	$20	$142	40.52013	-121.96733
657626	CA	Shasta	20	19.3%	33.9	$7,051	$35	$276	17.0%	29.8	$3,751	$20	$168	40.64857	-122.3873
657436	CA	Shasta	20	20.1%	35.3	$7,052	$35	$265	17.7%	31.1	$3,752	$20	$161	40.64053	-122.41301

			Base Case One-Axis Tracking Crystalline Solar PV						Sensitivity Case 20 Degree Fixed Tilt Thin Film Solar PV						
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
657423	CA	Shasta	20	18.7%	32.8	$7,060	$35	$285	16.4%	28.7	$3,760	$20	$175	40.53617	-122.41301
657298	CA	Shasta	20	18.7%	32.8	$7,062	$35	$285	16.4%	28.7	$3,762	$20	$175	40.54419	-122.43015
664836	CA	Shasta	20	22.8%	39.9	$7,085	$35	$235	20.1%	35.2	$3,785	$20	$143	40.87394	-121.41023
663392	CA	Shasta	20	22.9%	40.2	$7,043	$35	$232	20.2%	35.4	$3,743	$20	$141	40.91426	-121.60736
663139	CA	Shasta	20	22.9%	40.0	$7,042	$35	$233	20.2%	35.4	$3,742	$20	$141	40.90619	-121.64164
658004	CA	Shasta	20	20.7%	36.2	$7,043	$35	$258	18.2%	31.8	$3,743	$20	$157	40.64857	-122.33587
657941	CA	Shasta	20	20.7%	36.2	$7,046	$35	$258	18.2%	31.8	$3,746	$20	$157	40.64857	-122.34445
660785	CA	Shasta	20	22.8%	39.9	$7,050	$35	$234	20.1%	35.2	$3,750	$20	$142	40.72092	-121.95876
660273	CA	Shasta	20	22.8%	39.9	$7,046	$35	$234	20.0%	35.1	$3,746	$20	$142	40.6566	-122.02733
626724	CA	Shasta	20	22.7%	39.8	$7,055	$35	$235	20.0%	35.1	$3,755	$20	$143	40.41595	-122.13018
658125	CA	Shasta	20	22.7%	39.8	$7,048	$35	$234	20.0%	35.0	$3,748	$20	$143	40.6084	-122.31873
658065	CA	Shasta	20	22.8%	39.9	$7,050	$35	$234	20.1%	35.1	$3,750	$20	$142	40.6325	-122.3273
660324	CA	Shasta	20	22.9%	40.1	$7,047	$35	$233	20.1%	35.2	$3,747	$20	$142	40.56024	-122.01875
657822	CA	Shasta	20	19.3%	33.9	$7,191	$35	$281	17.0%	29.8	$3,891	$20	$174	40.70484	-122.36159
658623	CA	Shasta	20	22.7%	39.8	$7,048	$35	$234	20.0%	35.1	$3,748	$20	$142	40.56024	-122.25017
658372	CA	Shasta	20	22.7%	39.8	$7,056	$35	$235	20.0%	35.1	$3,756	$20	$143	40.56826	-122.28445
658373	CA	Shasta	20	22.7%	39.8	$7,056	$35	$235	20.0%	35.1	$3,756	$20	$143	40.57629	-122.28445
657305	CA	Shasta	20	18.8%	33.0	$7,052	$35	$283	16.5%	28.9	$3,752	$20	$173	40.60037	-122.43015
657306	CA	Shasta	20	18.7%	32.8	$7,057	$35	$285	16.4%	28.7	$3,757	$20	$175	40.6084	-122.43015
657546	CA	Shasta	20	20.1%	35.3	$7,052	$35	$265	17.7%	31.1	$3,752	$20	$161	40.51211	-122.39587
662637	CA	Shasta	20	22.8%	39.9	$7,044	$35	$234	20.1%	35.1	$3,744	$20	$142	40.92233	-121.71021
663900	CA	Shasta	20	22.8%	39.9	$7,044	$35	$234	20.1%	35.1	$3,744	$20	$142	40.94654	-121.53879
661497	CA	Shasta	20	22.6%	39.6	$7,042	$35	$236	19.9%	34.9	$3,742	$20	$143	40.87394	-121.86448
628027	CA	Shasta	20	22.8%	40.0	$7,057	$35	$234	20.2%	35.4	$3,757	$20	$142	40.42396	-121.95019
625302	CA	Shasta	20	22.9%	40.0	$7,047	$35	$233	20.2%	35.4	$3,747	$20	$141	40.44799	-122.3273
661157	CA	Shasta	20	22.8%	40.0	$7,058	$35	$234	20.1%	35.3	$3,758	$20	$142	40.67268	-121.90733
696967	CA	Shasta	20	22.8%	40.0	$7,041	$35	$233	20.2%	35.4	$3,741	$20	$141	41.03538	-121.43594
663092	CA	Shasta	20	22.7%	39.8	$7,188	$35	$239	20.0%	35.1	$3,888	$20	$147	40.52815	-121.64164
660401	CA	Shasta	20	22.8%	39.9	$7,042	$35	$234	20.1%	35.2	$3,742	$20	$142	40.67268	-122.01018
657547	CA	Shasta	20	19.3%	33.9	$7,054	$35	$276	17.0%	29.8	$3,754	$20	$168	40.52013	-122.39587
657862	CA	Shasta	20	19.3%	33.8	$7,057	$35	$277	16.9%	29.7	$3,757	$20	$169	40.52013	-122.35302
693610	CA	Shasta	20	23.0%	40.3	$7,063	$35	$232	20.3%	35.6	$3,763	$20	$141	41.01922	-121.90733
660392	CA	Shasta	20	23.1%	40.5	$7,043	$35	$230	20.4%	35.7	$3,743	$20	$140	40.60037	-122.01018
658124	CA	Shasta	20	22.0%	38.6	$7,046	$35	$242	19.4%	33.9	$3,746	$20	$147	40.60037	-122.31873
664537	CA	Shasta	20	22.8%	39.9	$7,049	$35	$234	20.1%	35.2	$3,749	$20	$142	41.00306	-121.45308
662650	CA	Shasta	20	22.6%	39.6	$7,043	$35	$236	19.9%	34.9	$3,743	$20	$143	40.52013	-121.70164
661122	CA	Shasta	20	22.8%	40.0	$7,059	$35	$234	20.1%	35.3	$3,759	$20	$142	40.89813	-121.9159
625547	CA	Shasta	20	23.1%	40.5	$7,048	$35	$231	20.4%	35.7	$3,748	$20	$140	40.42396	-122.29302
662820	CA	Shasta	20	22.8%	39.9	$7,042	$35	$234	20.1%	35.1	$3,742	$20	$142	40.87394	-121.68449
658892	CA	Shasta	20	22.8%	40.0	$7,069	$35	$234	20.1%	35.2	$3,769	$20	$143	40.6968	-122.21588
657942	CA	Shasta	20	20.7%	36.2	$7,053	$35	$258	18.2%	31.8	$3,753	$20	$157	40.6566	-122.34445
624739	CA	Shasta	20	22.5%	39.5	$7,047	$35	$237	19.8%	34.7	$3,747	$20	$144	40.40794	-122.40444
663015	CA	Shasta	20	22.6%	39.6	$7,048	$35	$236	19.9%	34.9	$3,748	$20	$143	40.92233	-121.65878
628712	CA	Shasta	20	23.1%	40.5	$7,049	$35	$231	20.5%	35.9	$3,749	$20	$139	40.44799	-121.85591
656928	CA	Shasta	20	18.8%	33.0	$7,071	$35	$284	16.5%	28.9	$3,771	$20	$174	40.6084	-122.48158
661089	CA	Shasta	20	22.8%	40.0	$7,042	$35	$233	20.1%	35.3	$3,742	$20	$141	40.6325	-121.9159
621570	CA	Shasta	20	22.9%	40.1	$7,150	$35	$236	20.2%	35.3	$3,850	$20	$145	40.35192	-122.84155
606303	CA	Sierra	20	24.6%	43.1	$7,138	$35	$219	21.9%	38.5	$3,838	$20	$133	39.65948	-120.44173
607943	CA	Sierra	20	24.7%	43.2	$7,042	$35	$216	22.0%	38.5	$3,742	$20	$130	39.67532	-120.21889
608069	CA	Sierra	20	24.7%	43.2	$7,047	$35	$216	22.0%	38.5	$3,747	$20	$130	39.67532	-120.20175
606429	CA	Sierra	20	24.6%	43.1	$7,110	$35	$218	21.9%	38.5	$3,810	$20	$132	39.65948	-120.42459
721713	CA	Siskiyou	20	19.0%	33.3	$7,042	$35	$281	16.6%	29.0	$3,742	$20	$172	41.86503	-122.46444
721653	CA	Siskiyou	20	19.0%	33.3	$7,046	$35	$281	16.6%	29.0	$3,746	$20	$172	41.87322	-122.47301
722106	CA	Siskiyou	20	19.0%	33.3	$7,050	$35	$281	16.6%	29.0	$3,750	$20	$172	41.5873	-122.40444
691683	CA	Siskiyou	20	23.8%	41.6	$7,134	$35	$227	21.1%	37.0	$3,834	$20	$138	41.22154	-122.1816
722332	CA	Siskiyou	20	18.9%	33.2	$7,076	$35	$283	16.6%	29.1	$3,776	$20	$173	41.93875	-122.37873
691862	CA	Siskiyou	20	24.1%	42.2	$7,230	$35	$226	21.4%	37.4	$3,930	$20	$139	41.18913	-122.15589
725753	CA	Siskiyou	20	22.8%	40.0	$7,050	$35	$234	20.1%	35.2	$3,750	$20	$142	41.97974	-121.89876
721107	CA	Siskiyou	20	19.0%	33.3	$7,050	$35	$281	16.6%	29.0	$3,750	$20	$172	41.89779	-122.55014
719421	CA	Siskiyou	20	23.6%	41.3	$7,061	$35	$226	21.0%	36.7	$3,761	$20	$136	41.57915	-122.78156
720592	CA	Siskiyou	20	23.0%	40.3	$7,048	$35	$232	20.4%	35.7	$3,748	$20	$140	41.67702	-122.61871
718215	CA	Siskiyou	20	23.3%	40.9	$7,102	$35	$230	20.8%	36.4	$3,802	$20	$139	41.69335	-122.95297
721168	CA	Siskiyou	20	22.9%	40.1	$7,055	$35	$233	20.3%	35.5	$3,755	$20	$141	41.89779	-122.54157
689935	CA	Siskiyou	20	24.0%	42.1	$7,043	$35	$222	21.4%	37.5	$3,743	$20	$133	41.39197	-122.43015
722026	CA	Siskiyou	20	19.0%	33.3	$7,048	$35	$281	16.6%	29.0	$3,748	$20	$172	41.93056	-122.42158
722358	CA	Siskiyou	20	19.4%	34.0	$7,042	$35	$274	17.0%	29.7	$3,742	$20	$168	41.65254	-122.37016
692289	CA	Siskiyou	20	20.9%	36.7	$7,060	$35	$255	18.4%	32.2	$3,760	$20	$156	41.18913	-122.09589
721190	CA	Siskiyou	20	19.4%	34.0	$7,056	$35	$275	17.0%	29.7	$3,756	$20	$168	41.57915	-122.533
724821	CA	Siskiyou	20	22.8%	39.9	$7,045	$35	$234	20.0%	35.1	$3,745	$20	$142	41.84048	-122.02733
692172	CA	Siskiyou	20	21.0%	36.8	$7,042	$35	$253	18.4%	32.3	$3,742	$20	$154	41.22964	-122.11303
721267	CA	Siskiyou	20	19.0%	33.3	$7,047	$35	$281	16.6%	29.0	$3,747	$20	$172	41.70968	-122.52443
690422	CA	Siskiyou	20	23.8%	41.7	$7,107	$35	$226	21.2%	37.1	$3,807	$20	$137	41.38384	-122.36159
724635	CA	Siskiyou	20	20.4%	35.7	$7,046	$35	$262	17.8%	31.1	$3,746	$20	$161	41.81593	-122.05304
722527	CA	Siskiyou	20	19.5%	34.2	$7,048	$35	$273	17.1%	29.9	$3,748	$20	$167	41.53841	-122.34445
691749	CA	Siskiyou	20	23.9%	41.9	$7,049	$35	$223	21.3%	37.4	$3,749	$20	$134	41.26208	-122.17303
727942	CA	Siskiyou	20	22.8%	40.0	$7,053	$35	$234	20.2%	35.4	$3,753	$20	$141	41.92236	-121.59022
686958	CA	Siskiyou	20	23.8%	41.7	$7,061	$35	$224	21.2%	37.1	$3,761	$20	$135	41.48956	-122.85012
690364	CA	Siskiyou	20	23.8%	41.7	$7,052	$35	$224	21.2%	37.1	$3,752	$20	$135	41.40823	-122.37016
687122	CA	Siskiyou	20	23.0%	40.4	$7,058	$35	$232	20.3%	35.6	$3,758	$20	$141	41.33511	-122.82441
488478	CA	Solano	20	23.5%	41.2	$7,056	$35	$227	20.6%	36.1	$3,756	$20	$139	38.41152	-121.77877
486086	CA	Solano	20	23.1%	40.4	$7,071	$35	$232	20.3%	35.5	$3,771	$20	$141	38.22503	-122.09589
487942	CA	Solano	20	23.4%	41.0	$7,042	$35	$228	20.6%	36.0	$3,742	$20	$139	38.22503	-121.84734
488959	CA	Solano	20	23.4%	41.0	$7,118	$35	$230	20.5%	36.0	$3,818	$20	$141	38.17073	-121.71021
488834	CA	Solano	20	23.4%	41.0	$7,119	$35	$230	20.5%	36.0	$3,819	$20	$141	38.194	-121.72735
487670	CA	Solano	20	23.2%	40.6	$7,109	$35	$232	20.5%	35.9	$3,809	$20	$141	38.10097	-121.88162
486094	CA	Solano	20	23.0%	40.3	$7,075	$35	$233	20.3%	35.5	$3,775	$20	$142	38.28714	-122.09589
487999	CA	Solano	20	23.6%	41.4	$7,055	$35	$226	20.7%	36.3	$3,755	$20	$138	38.17073	-121.83877
487734	CA	Solano	20	22.9%	40.1	$7,089	$35	$234	20.2%	35.4	$3,789	$20	$143	38.10097	-121.87305
488504	CA	Solano	20	23.4%	41.0	$7,058	$35	$228	20.5%	36.0	$3,758	$20	$139	38.11647	-121.7702
487736	CA	Solano	20	22.9%	40.1	$7,064	$35	$233	20.2%	35.4	$3,764	$20	$142	38.11647	-121.87305
487798	CA	Solano	20	22.9%	40.1	$7,056	$35	$233	20.2%	35.4	$3,756	$20	$141	38.10097	-121.86448
487384	CA	Solano	20	23.0%	40.3	$7,054	$35	$232	20.3%	35.5	$3,754	$20	$141	38.36485	-121.92448
487247	CA	Solano	20	22.8%	40.0	$7,057	$35	$234	20.1%	35.2	$3,757	$20	$142	38.29491	-121.94162

RETI Phase 1B Draft Report
Appendix D
Solar PV Projects

			Base Case One-Axis Tracking Crystalline Solar PV						Sensitivity Case 20 Degree Fixed Tilt Thin Film Solar PV						
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
520973	CA	Sonoma	20	22.5%	39.4	$7,086	$35	$238	19.8%	34.7	$3,786	$20	$145	38.77813	-122.92726
518022	CA	Sonoma	20	25.0%	43.7	$7,064	$35	$214	22.3%	39.0	$3,764	$20	$129	38.72341	-123.32152
481370	CA	Sonoma	20	25.3%	44.4	$7,050	$35	$211	22.6%	39.5	$3,750	$20	$127	38.38041	-122.73013
481107	CA	Sonoma	20	24.9%	43.6	$7,061	$35	$214	22.0%	38.6	$3,761	$20	$130	38.32599	-122.76441
518898	CA	Sonoma	20	25.0%	43.7	$7,063	$35	$214	22.3%	39.0	$3,763	$20	$129	38.5673	-123.20152
521026	CA	Sonoma	20	21.8%	38.2	$7,069	$35	$245	19.2%	33.6	$3,769	$20	$150	38.69216	-122.91869
521405	CA	Sonoma	20	22.9%	40.2	$7,075	$35	$233	20.2%	35.4	$3,775	$20	$142	38.65312	-122.86726
521322	CA	Sonoma	20	23.0%	40.2	$7,055	$35	$232	20.2%	35.5	$3,755	$20	$141	38.50495	-122.87583
480676	CA	Sonoma	20	24.8%	43.5	$7,063	$35	$215	22.0%	38.5	$3,763	$20	$130	38.45822	-122.82441
479646	CA	Sonoma	20	24.2%	42.4	$7,090	$35	$221	21.2%	37.2	$3,790	$20	$136	38.41152	-122.96154
483967	CA	Sonoma	20	22.9%	40.2	$7,071	$35	$233	20.2%	35.4	$3,771	$20	$142	38.17073	-122.37873
483903	CA	Sonoma	20	22.6%	39.7	$7,074	$35	$236	20.0%	35.1	$3,774	$20	$143	38.17073	-122.3873
481745	CA	Sonoma	20	26.3%	46.1	$7,044	$35	$203	23.8%	41.7	$3,744	$20	$120	38.31045	-122.67871
482590	CA	Sonoma	20	22.5%	39.5	$7,063	$35	$237	19.9%	34.9	$3,763	$20	$144	38.41152	-122.56729
479579	CA	Sonoma	20	24.1%	42.3	$7,091	$35	$222	21.1%	37.0	$3,791	$20	$137	38.38818	-122.97011
481769	CA	Sonoma	20	21.7%	38.1	$7,072	$35	$246	19.2%	33.6	$3,772	$20	$150	38.49716	-122.67871
483214	CA	Sonoma	20	22.2%	38.8	$7,053	$35	$241	19.5%	34.2	$3,753	$20	$146	38.28714	-122.48158
483596	CA	Sonoma	20	21.8%	38.1	$7,058	$35	$245	19.2%	33.7	$3,758	$20	$149	38.27161	-122.43015
483528	CA	Sonoma	20	22.6%	39.6	$7,049	$35	$236	20.0%	35.0	$3,749	$20	$143	38.24055	-122.43872
481050	CA	Sonoma	20	24.9%	43.6	$7,058	$35	$214	22.0%	38.6	$3,758	$20	$130	38.38041	-122.77298
482125	CA	Sonoma	20	22.5%	39.5	$7,062	$35	$237	19.9%	34.9	$3,762	$20	$144	38.27938	-122.62728
520646	CA	Sonoma	20	21.5%	37.7	$7,063	$35	$249	18.9%	33.0	$3,763	$20	$152	38.72341	-122.97011
448522	CA	Stanislaus	20	23.7%	41.5	$7,101	$35	$227	20.8%	36.4	$3,801	$20	$139	37.51452	-121.0674
404836	CA	Stanislaus	20	24.1%	42.2	$7,078	$35	$222	21.0%	36.8	$3,778	$20	$137	37.46842	-120.83599
402682	CA	Stanislaus	20	24.3%	42.6	$7,050	$35	$220	21.2%	37.1	$3,750	$20	$135	37.39932	-121.11882
448485	CA	Stanislaus	20	23.7%	41.5	$7,073	$35	$226	20.8%	36.4	$3,773	$20	$138	37.73004	-121.07597
450187	CA	Stanislaus	20	24.1%	42.2	$7,066	$35	$222	21.2%	37.1	$3,766	$20	$135	37.8226	-120.85313
451393	CA	Stanislaus	20	24.1%	42.2	$7,126	$35	$223	21.2%	37.1	$3,826	$20	$137	37.59912	-120.69028
451522	CA	Stanislaus	20	24.0%	42.0	$7,055	$35	$222	21.0%	36.7	$3,755	$20	$136	37.59142	-120.67314
446772	CA	Stanislaus	20	23.5%	41.2	$7,066	$35	$227	20.8%	36.4	$3,766	$20	$138	37.55297	-121.29881
447481	CA	Stanislaus	20	23.7%	41.5	$7,075	$35	$226	20.7%	36.3	$3,775	$20	$139	37.50684	-121.20453
449197	CA	Stanislaus	20	23.9%	41.9	$7,065	$35	$223	21.0%	36.9	$3,765	$20	$136	37.70692	-120.98169
403020	CA	Stanislaus	20	24.3%	42.6	$7,058	$35	$220	21.2%	37.1	$3,758	$20	$135	37.49915	-121.07597
451395	CA	Stanislaus	20	24.1%	42.2	$7,091	$35	$223	21.1%	37.0	$3,791	$20	$136	37.61451	-120.69028
450118	CA	Stanislaus	20	23.9%	41.9	$7,070	$35	$223	21.0%	36.9	$3,770	$20	$136	37.79173	-120.8617
448406	CA	Stanislaus	20	23.7%	41.5	$7,125	$35	$228	20.8%	36.4	$3,825	$20	$140	37.62221	-121.08454
402358	CA	Stanislaus	20	24.2%	42.4	$7,053	$35	$221	21.1%	36.9	$3,753	$20	$136	37.407	-121.16168
402487	CA	Stanislaus	20	24.3%	42.5	$7,056	$35	$220	21.2%	37.2	$3,756	$20	$135	37.39932	-121.14453
402419	CA	Stanislaus	20	24.3%	42.6	$7,049	$35	$219	21.2%	37.1	$3,749	$20	$135	37.3763	-121.1531
451394	CA	Stanislaus	20	23.9%	41.8	$7,126	$35	$226	20.9%	36.7	$3,826	$20	$139	37.60681	-120.69028
451523	CA	Stanislaus	20	24.0%	42.0	$7,084	$35	$223	21.0%	36.7	$3,784	$20	$137	37.59912	-120.67314
449737	CA	Stanislaus	20	23.9%	41.9	$7,057	$35	$223	21.0%	36.9	$3,757	$20	$136	37.8612	-120.91312
449802	CA	Stanislaus	20	24.1%	42.3	$7,062	$35	$221	21.2%	37.1	$3,762	$20	$135	37.8612	-120.90455
567543	CA	Sutter	20	23.5%	41.1	$7,050	$35	$227	20.6%	36.1	$3,750	$20	$139	39.10734	-121.68449
531471	CA	Sutter	20	23.6%	41.3	$7,051	$35	$226	20.6%	36.1	$3,751	$20	$138	38.79378	-121.52165
531343	CA	Sutter	20	23.5%	41.2	$7,072	$35	$227	20.6%	36.1	$3,772	$20	$139	38.79378	-121.53879
567883	CA	Sutter	20	23.6%	41.3	$7,046	$35	$226	20.8%	36.4	$3,746	$20	$137	39.26465	-121.64164
567671	CA	Sutter	20	23.7%	41.6	$7,067	$35	$225	20.9%	36.6	$3,767	$20	$137	39.10734	-121.66735
567885	CA	Sutter	20	23.8%	41.6	$7,043	$35	$224	20.9%	36.6	$3,743	$20	$136	39.2804	-121.64164
592085	CA	Tehama	20	23.7%	41.4	$7,066	$35	$226	20.8%	36.4	$3,766	$20	$138	39.81804	-122.37873
593483	CA	Tehama	20	23.7%	41.6	$7,049	$35	$225	20.9%	36.6	$3,749	$20	$137	39.91336	-122.19017
627121	CA	Tehama	20	22.9%	40.2	$7,052	$35	$233	20.3%	35.5	$3,752	$20	$141	40.12033	-122.07018
626370	CA	Tehama	20	22.8%	40.0	$7,048	$35	$234	20.2%	35.4	$3,748	$20	$141	40.06454	-122.17303
626929	CA	Tehama	20	22.8%	40.0	$7,079	$35	$234	20.2%	35.4	$3,779	$20	$142	40.07251	-122.09589
626079	CA	Tehama	20	22.8%	40.0	$7,084	$35	$235	20.1%	35.2	$3,784	$20	$143	40.21606	-122.21588
626754	CA	Tehama	20	22.6%	39.6	$7,083	$35	$237	19.9%	34.9	$3,783	$20	$145	40.1602	-122.1216
628460	CA	Tehama	20	22.8%	40.0	$7,052	$35	$234	20.2%	35.4	$3,752	$20	$142	40.41595	-121.89019
626246	CA	Tehama	20	23.1%	40.5	$7,082	$35	$232	20.4%	35.8	$3,782	$20	$141	40.06454	-122.19017
594746	CA	Tehama	20	24.1%	42.3	$7,058	$35	$221	21.4%	37.5	$3,758	$20	$134	39.93721	-122.01875
621630	CA	Tehama	20	22.9%	40.1	$7,157	$35	$236	20.2%	35.3	$3,857	$20	$145	40.33593	-122.83298
652784	CA	Trinity	20	24.4%	42.7	$7,134	$35	$221	21.7%	38.1	$3,834	$20	$134	40.72092	-123.04725
653650	CA	Trinity	20	24.1%	42.2	$7,071	$35	$222	21.4%	37.5	$3,771	$20	$134	40.59235	-122.92726
651691	CA	Trinity	20	24.2%	42.4	$7,178	$35	$224	21.5%	37.7	$3,878	$20	$137	40.54419	-123.19295
651816	CA	Trinity	20	24.3%	42.6	$7,179	$35	$223	21.7%	38.0	$3,879	$20	$136	40.53617	-123.17581
617022	CA	Trinity	20	22.7%	39.7	$7,121	$35	$237	20.0%	35.0	$3,821	$20	$146	40.17616	-123.46722
654855	CA	Trinity	20	18.8%	33.0	$7,115	$35	$285	16.5%	28.9	$3,815	$20	$176	40.6566	-122.76441
651817	CA	Trinity	20	24.2%	42.4	$7,042	$35	$220	21.5%	37.7	$3,742	$20	$132	40.54419	-123.17581
617195	CA	Trinity	20	22.8%	39.9	$7,104	$35	$236	20.1%	35.2	$3,804	$20	$144	40.07251	-123.44151
654294	CA	Trinity	20	19.3%	33.8	$7,058	$35	$277	16.9%	29.7	$3,758	$20	$169	40.70484	-122.84155
652007	CA	Trinity	20	24.2%	42.5	$7,067	$35	$220	21.6%	37.9	$3,767	$20	$132	40.55222	-123.1501
617514	CA	Trinity	20	22.7%	39.7	$7,134	$35	$238	20.0%	35.0	$3,834	$20	$146	40.14425	-123.39865
653474	CA	Trinity	20	24.1%	42.2	$7,059	$35	$222	21.4%	37.5	$3,759	$20	$134	40.6968	-122.95297
654166	CA	Trinity	20	19.9%	34.8	$7,078	$35	$270	17.3%	30.2	$3,778	$20	$167	40.68876	-122.85869
268542	CA	Tulare	20	25.1%	43.9	$7,060	$35	$213	22.0%	38.6	$3,760	$20	$130	35.93994	-119.49037
268810	CA	Tulare	20	25.1%	44.0	$7,064	$35	$213	22.1%	38.7	$3,764	$20	$130	35.93994	-119.45609
324539	CA	Tulare	20	24.4%	42.7	$7,069	$35	$219	21.2%	37.2	$3,769	$20	$135	36.18883	-119.28467
327691	CA	Tulare	20	24.6%	43.1	$7,110	$35	$219	21.5%	37.6	$3,810	$20	$135	36.06806	-118.87327
324300	CA	Tulare	20	24.4%	42.7	$7,069	$35	$219	21.2%	37.2	$3,769	$20	$135	36.3779	-119.31896
323745	CA	Tulare	20	24.6%	43.1	$7,055	$35	$217	21.4%	37.5	$3,755	$20	$133	36.17372	-119.38752
324234	CA	Tulare	20	24.3%	42.5	$7,145	$35	$223	21.1%	37.0	$3,845	$20	$138	36.3779	-119.32753
373237	CA	Tulare	20	24.3%	42.5	$7,120	$35	$222	21.1%	37.1	$3,820	$20	$137	36.61299	-118.95898
323968	CA	Tulare	20	24.6%	43.1	$7,060	$35	$217	21.4%	37.5	$3,760	$20	$134	36.36276	-119.36181
327544	CA	Tulare	20	24.6%	43.1	$7,145	$35	$219	21.5%	37.6	$3,845	$20	$136	36.45366	-118.89899
326682	CA	Tulare	20	24.4%	42.7	$7,044	$35	$218	21.3%	37.4	$3,744	$20	$134	36.42335	-119.01041
323564	CA	Tulare	20	24.5%	42.9	$7,107	$35	$220	21.3%	37.3	$3,807	$20	$136	36.30222	-119.41323
326549	CA	Tulare	20	24.6%	43.1	$7,055	$35	$217	21.4%	37.5	$3,755	$20	$133	36.41577	-119.02755
324282	CA	Tulare	20	24.5%	42.9	$7,073	$35	$218	21.3%	37.4	$3,773	$20	$135	36.24172	-119.31896
324267	CA	Tulare	20	24.3%	42.5	$7,067	$35	$220	21.1%	37.0	$3,767	$20	$136	36.12842	-119.31896
270537	CA	Tulare	20	24.6%	43.1	$7,067	$35	$217	21.4%	37.6	$3,767	$20	$134	35.82708	-119.23325
269683	CA	Tulare	20	24.7%	43.3	$7,052	$35	$216	21.5%	37.7	$3,752	$20	$133	35.95501	-119.34467
325511	CA	Tulare	20	24.5%	43.0	$7,089	$35	$218	21.4%	37.5	$3,789	$20	$135	36.05297	-119.15611
326630	CA	Tulare	20	24.4%	42.8	$7,082	$35	$219	21.3%	37.3	$3,782	$20	$135	36.03036	-119.01041
272026	CA	Tulare	20	24.9%	43.5	$7,050	$35	$215	21.7%	38.0	$3,750	$20	$132	35.93994	-119.04469

				Base Case One-Axis Tracking Crystalline Solar PV					**Sensitivity Case** 20 Degree Fixed Tilt Thin Film Solar PV						
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
325751	CA	Tulare	20	24.5%	43.0	$7,114	$35	$219	21.4%	37.5	$3,814	$20	$136	36.37033	-119.1304
326638	CA	Tulare	20	24.4%	42.7	$7,090	$35	$220	21.3%	37.2	$3,790	$20	$136	36.09069	-119.01041
272163	CA	Tulare	20	24.9%	43.5	$7,056	$35	$215	21.7%	38.0	$3,756	$20	$132	35.96254	-119.02755
327422	CA	Tulare	20	24.4%	42.7	$7,062	$35	$219	21.3%	37.4	$3,762	$20	$134	36.03036	-118.90756
328054	CA	Tulare	20	24.5%	42.9	$7,141	$35	$220	21.4%	37.5	$3,841	$20	$136	36.31734	-118.83042
326140	CA	Tulare	20	24.4%	42.8	$7,068	$35	$219	21.3%	37.4	$3,768	$20	$134	36.31734	-119.07897
271015	CA	Tulare	20	24.3%	42.6	$7,048	$35	$219	21.2%	37.1	$3,748	$20	$135	35.89478	-119.17325
500206	CA	Tuolumne	20	24.1%	42.2	$7,172	$35	$225	21.2%	37.1	$3,872	$20	$139	38.03902	-120.20175
499950	CA	Tuolumne	20	24.0%	42.0	$7,183	$35	$226	21.1%	37.0	$3,883	$20	$140	38.03902	-120.23603
453228	CA	Tuolumne	20	24.0%	42.0	$7,043	$35	$222	21.0%	36.7	$3,743	$20	$136	37.71463	-120.4503
453248	CA	Tuolumne	20	23.8%	41.6	$7,050	$35	$224	20.7%	36.3	$3,750	$20	$138	37.86892	-120.4503
453313	CA	Tuolumne	20	23.8%	41.8	$7,052	$35	$224	20.8%	36.4	$3,752	$20	$137	37.86892	-120.44173
500205	CA	Tuolumne	20	24.1%	42.2	$7,050	$35	$221	21.2%	37.1	$3,750	$20	$135	38.03128	-120.20175
454302	CA	Tuolumne	20	24.2%	42.4	$7,044	$35	$220	21.3%	37.3	$3,744	$20	$134	37.97712	-120.31317
454172	CA	Tuolumne	20	24.2%	42.4	$7,046	$35	$220	21.3%	37.3	$3,746	$20	$134	37.97712	-120.33031
453614	CA	Tuolumne	20	23.8%	41.7	$7,055	$35	$224	20.7%	36.3	$3,755	$20	$138	37.68381	-120.39888
454630	CA	Tuolumne	20	24.6%	43.0	$7,041	$35	$217	21.7%	38.0	$3,741	$20	$131	38.00033	-120.27031
454694	CA	Tuolumne	20	24.5%	42.9	$7,046	$35	$218	21.6%	37.9	$3,746	$20	$132	37.99259	-120.26174
453162	CA	Tuolumne	20	23.8%	41.7	$7,065	$35	$225	20.8%	36.4	$3,765	$20	$138	37.70692	-120.45887
454737	CA	Tuolumne	20	24.3%	42.6	$7,066	$35	$220	21.3%	37.4	$3,766	$20	$134	37.8226	-120.25317
452603	CA	Tuolumne	20	23.8%	41.7	$7,053	$35	$224	20.8%	36.4	$3,753	$20	$137	37.90755	-120.53601
499242	CA	Tuolumne	20	23.9%	41.9	$7,050	$35	$223	21.0%	36.8	$3,750	$20	$136	38.00806	-120.33031
453589	CA	Tuolumne	20	23.7%	41.5	$7,044	$35	$225	20.7%	36.2	$3,744	$20	$138	37.99259	-120.40745
453780	CA	Tuolumne	20	23.8%	41.7	$7,051	$35	$224	20.7%	36.3	$3,751	$20	$138	37.96165	-120.38173
453717	CA	Tuolumne	20	23.8%	41.7	$7,052	$35	$224	20.7%	36.3	$3,752	$20	$138	37.97712	-120.3903
453097	CA	Tuolumne	20	23.8%	41.7	$7,079	$35	$225	20.8%	36.4	$3,779	$20	$138	37.70692	-120.46744
109845	CA	Ventura	20	24.9%	43.6	$7,054	$35	$214	22.2%	38.8	$3,754	$20	$129	34.2485	-118.719
107533	CA	Ventura	20	23.7%	41.5	$7,059	$35	$226	21.1%	37.0	$3,759	$20	$135	34.2485	-119.01041
106572	CA	Ventura	20	24.2%	42.4	$7,089	$35	$221	21.7%	38.0	$3,789	$20	$133	34.18215	-119.1304
104836	CA	Ventura	20	24.3%	42.6	$7,130	$35	$222	21.7%	38.0	$3,830	$20	$134	34.41831	-119.35324
105828	CA	Ventura	20	25.1%	43.9	$7,061	$35	$213	22.3%	39.1	$3,761	$20	$128	34.21163	-119.22468
106573	CA	Ventura	20	23.7%	41.5	$7,062	$35	$226	21.1%	37.0	$3,762	$20	$135	34.18952	-119.1304
105764	CA	Ventura	20	24.3%	42.6	$7,099	$35	$221	21.7%	38.0	$3,799	$20	$133	34.24113	-119.23325
106497	CA	Ventura	20	23.8%	41.7	$7,067	$35	$224	21.3%	37.3	$3,767	$20	$135	34.13058	-119.13897
108709	CA	Ventura	20	24.9%	43.7	$7,058	$35	$214	22.2%	38.9	$3,758	$20	$129	34.39614	-118.8647
106179	CA	Ventura	20	25.1%	43.9	$7,090	$35	$214	22.3%	39.1	$3,790	$20	$129	34.29276	-119.18182
108689	CA	Ventura	20	24.5%	42.9	$7,092	$35	$219	21.9%	38.4	$3,792	$20	$132	34.2485	-118.8647
106801	CA	Ventura	20	23.7%	41.5	$7,116	$35	$227	21.1%	37.0	$3,816	$20	$137	34.36659	-119.10468
529365	CA	Yolo	20	23.4%	41.0	$7,080	$35	$229	20.5%	35.8	$3,780	$20	$141	38.84072	-121.80449
529972	CA	Yolo	20	23.5%	41.2	$7,044	$35	$226	20.7%	36.2	$3,744	$20	$138	38.58289	-121.71878
530036	CA	Yolo	20	23.6%	41.4	$7,048	$35	$226	20.7%	36.3	$3,748	$20	$138	38.58289	-121.71021
530506	CA	Yolo	20	23.5%	41.1	$7,061	$35	$227	20.5%	35.9	$3,761	$20	$140	38.75468	-121.65021
530542	CA	Yolo	20	23.5%	41.1	$7,105	$35	$229	20.5%	35.9	$3,805	$20	$141	38.53611	-121.64164
529364	CA	Yolo	20	23.4%	41.0	$7,076	$35	$229	20.5%	35.8	$3,776	$20	$140	38.8329	-121.80449
529237	CA	Yolo	20	23.6%	41.4	$7,087	$35	$227	20.7%	36.3	$3,787	$20	$139	38.84072	-121.82163
528257	CA	Yolo	20	23.5%	41.2	$7,054	$35	$227	20.7%	36.2	$3,754	$20	$138	38.68435	-121.95019
528321	CA	Yolo	20	23.5%	41.2	$7,058	$35	$227	20.7%	36.2	$3,758	$20	$138	38.68435	-121.94162
527598	CA	Yolo	20	23.1%	40.5	$7,080	$35	$232	20.3%	35.6	$3,780	$20	$141	38.53611	-122.0359
529724	CA	Yolo	20	23.6%	41.4	$7,083	$35	$227	20.7%	36.3	$3,783	$20	$139	38.64531	-121.75306
527725	CA	Yolo	20	23.8%	41.6	$7,054	$35	$224	20.9%	36.6	$3,754	$20	$137	38.52832	-122.01875
527662	CA	Yolo	20	23.8%	41.6	$7,060	$35	$225	20.9%	36.6	$3,760	$20	$137	38.53611	-122.02733
529301	CA	Yolo	20	23.4%	41.0	$7,041	$35	$228	20.5%	35.8	$3,741	$20	$139	38.84072	-121.81306
530301	CA	Yolo	20	23.6%	41.4	$7,053	$35	$226	20.7%	36.3	$3,753	$20	$138	38.65312	-121.67592
530302	CA	Yolo	20	23.5%	41.1	$7,055	$35	$227	20.5%	35.9	$3,755	$20	$139	38.66092	-121.67592
529988	CA	Yolo	20	23.6%	41.4	$7,056	$35	$226	20.7%	36.3	$3,756	$20	$138	38.70778	-121.71878
528459	CA	Yolo	20	23.6%	41.4	$7,077	$35	$227	20.7%	36.3	$3,777	$20	$139	38.76249	-121.92448
528395	CA	Yolo	20	23.4%	41.0	$7,082	$35	$229	20.4%	35.8	$3,782	$20	$141	38.76249	-121.93305
570109	CA	Yuba	20	23.4%	41.0	$7,042	$35	$228	20.6%	36.0	$3,742	$20	$139	39.1545	-121.34166
570110	CA	Yuba	20	23.6%	41.4	$7,045	$35	$226	20.8%	36.4	$3,745	$20	$137	39.16236	-121.34166
569546	CA	Yuba	20	23.4%	41.0	$7,042	$35	$228	20.5%	36.0	$3,742	$20	$139	39.25678	-121.4188
570160	CA	Yuba	20	23.7%	41.5	$7,049	$35	$225	20.8%	36.5	$3,749	$20	$137	39.05237	-121.33309
570920	CA	Yuba	20	23.4%	40.9	$7,060	$35	$229	20.5%	35.9	$3,760	$20	$140	39.49338	-121.23881
571034	CA	Yuba	20	23.4%	41.0	$7,059	$35	$228	20.6%	36.0	$3,759	$20	$139	39.38287	-121.22167
568370	CA	Yuba	20	23.5%	41.2	$7,045	$35	$227	20.6%	36.1	$3,745	$20	$138	39.06807	-121.57307
570969	CA	Yuba	20	23.3%	40.9	$7,042	$35	$228	20.5%	36.0	$3,742	$20	$139	39.37498	-121.23024
568575	CA	Yuba	20	23.4%	41.0	$7,049	$35	$228	20.5%	35.9	$3,749	$20	$139	39.17023	-121.54736
531172	CA	Yuba	20	23.4%	41.0	$7,076	$35	$228	20.5%	36.0	$3,776	$20	$140	38.95823	-121.5645
531108	CA	Yuba	20	23.5%	41.1	$7,077	$35	$228	20.5%	35.9	$3,777	$20	$140	38.95823	-121.57307
568129	CA	Yuba	20	23.8%	41.7	$7,071	$35	$225	20.9%	36.7	$3,771	$20	$137	39.18595	-121.60736
568067	CA	Yuba	20	23.6%	41.4	$7,073	$35	$226	20.8%	36.5	$3,773	$20	$138	39.20169	-121.61593
568304	CA	Yuba	20	23.4%	41.0	$7,042	$35	$227	20.5%	36.0	$3,742	$20	$139	39.05237	-121.58164
570310	CA	Yuba	20	23.4%	40.9	$7,055	$35	$228	20.6%	36.1	$3,755	$20	$139	39.22529	-121.31595
568174	CA	Yuba	20	23.8%	41.7	$7,070	$35	$225	20.9%	36.6	$3,770	$20	$137	39.03667	-121.59879
569456	CA	Yuba	20	23.5%	41.1	$7,041	$35	$227	20.6%	36.1	$3,741	$20	$138	39.05237	-121.42737
569542	CA	Yuba	20	23.4%	41.0	$7,045	$35	$228	20.5%	36.0	$3,745	$20	$139	39.22529	-121.4188
st39196	CA	Fresno	150	25.5%	335.7	$7,000	$35	$207	22.6%	297.4	$3,700	$20	$125	36.16533	-120.63342
st39219	CA	Fresno	150	25.5%	335.7	$7,000	$35	$207	22.6%	297.4	$3,700	$20	$125	36.14398	-120.60918
st39272	CA	Fresno	150	25.3%	332.7	$7,000	$35	$209	22.4%	293.7	$3,700	$20	$126	36.25081	-120.5607
st1500	CA	Imperial	150	27.2%	356.9	$7,001	$35	$195	24.3%	318.9	$3,701	$20	$116	32.75593	-115.97898
st1547	CA	Imperial	150	27.2%	356.9	$7,001	$35	$195	24.3%	318.9	$3,701	$20	$116	32.73543	-115.9305
st1548	CA	Imperial	150	27.2%	356.9	$7,001	$35	$195	24.3%	318.9	$3,701	$20	$116	32.75593	-115.9305
st1571	CA	Imperial	150	27.2%	356.9	$7,001	$35	$195	24.3%	318.9	$3,701	$20	$116	32.73543	-115.90626
st1572	CA	Imperial	150	27.2%	356.9	$7,000	$35	$195	24.3%	318.9	$3,700	$20	$116	32.75593	-115.90626
st1573	CA	Imperial	150	27.2%	356.9	$7,000	$35	$195	24.3%	318.9	$3,700	$20	$116	32.77643	-115.90626
st1574	CA	Imperial	150	26.5%	347.7	$7,001	$35	$200	23.5%	308.5	$3,701	$20	$120	32.79695	-115.90626
st1596	CA	Imperial	150	27.5%	362.0	$7,000	$35	$192	24.6%	323.5	$3,700	$20	$115	32.75593	-115.88202
st1597	CA	Imperial	150	27.5%	362.0	$7,000	$35	$192	24.6%	323.5	$3,700	$20	$115	32.77643	-115.88202
st1620	CA	Imperial	150	27.5%	362.0	$7,001	$35	$192	24.6%	323.5	$3,701	$20	$115	32.75593	-115.85777
st1621	CA	Imperial	150	27.5%	362.0	$7,001	$35	$192	24.6%	323.5	$3,701	$20	$115	32.77643	-115.85777
st1622	CA	Imperial	150	26.9%	353.6	$7,000	$35	$197	23.9%	314.4	$3,700	$20	$118	32.79695	-115.85777
st1623	CA	Imperial	150	26.9%	353.6	$7,000	$35	$197	23.9%	314.4	$3,700	$20	$118	32.81747	-115.85777
st1644	CA	Imperial	150	27.5%	362.0	$7,001	$35	$192	24.6%	323.5	$3,701	$20	$115	32.75593	-115.83353
st1645	CA	Imperial	150	27.5%	362.0	$7,001	$35	$192	24.6%	323.5	$3,701	$20	$115	32.77643	-115.83353

			Base Case One-Axis Tracking Crystalline Solar PV						Sensitivity Case 20 Degree Fixed Tilt Thin Film Solar PV						
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
st1646	CA	Imperial	150	26.9%	353.6	$7,000	$35	$197	23.9%	314.4	$3,700	$20	$118	32.79695	-115.83353
st1648	CA	Imperial	150	26.9%	353.6	$7,002	$35	$197	23.9%	314.4	$3,702	$20	$118	32.83799	-115.83353
st1668	CA	Imperial	150	27.5%	362.0	$7,001	$35	$192	24.6%	323.5	$3,701	$20	$115	32.75593	-115.80929
st1669	CA	Imperial	150	27.5%	362.0	$7,000	$35	$192	24.6%	323.5	$3,700	$20	$115	32.77643	-115.80929
st1670	CA	Imperial	150	26.9%	353.6	$7,001	$35	$197	23.9%	314.4	$3,701	$20	$118	32.79695	-115.80929
st1671	CA	Imperial	150	26.9%	353.6	$7,002	$35	$197	23.9%	314.4	$3,702	$20	$118	32.81747	-115.80929
st1693	CA	Imperial	150	26.5%	348.4	$7,000	$35	$200	23.5%	309.0	$3,700	$20	$120	32.77643	-115.78505
st1697	CA	Imperial	150	26.6%	349.0	$7,000	$35	$199	23.6%	309.7	$3,700	$20	$120	32.85851	-115.78505
st1704	CA	Imperial	150	27.0%	354.3	$7,003	$35	$197	24.1%	316.3	$3,703	$20	$117	33.00232	-115.78505
st1727	CA	Imperial	150	26.9%	353.4	$7,001	$35	$197	23.9%	314.7	$3,701	$20	$118	32.98176	-115.76081
st1728	CA	Imperial	150	27.0%	354.3	$7,002	$35	$197	24.1%	316.3	$3,702	$20	$117	33.00232	-115.76081
st1751	CA	Imperial	150	26.9%	353.4	$7,000	$35	$197	23.9%	314.7	$3,700	$20	$118	32.98176	-115.73657
st1752	CA	Imperial	150	27.0%	354.3	$7,000	$35	$197	24.1%	316.3	$3,700	$20	$117	33.00232	-115.73657
st1774	CA	Imperial	150	26.9%	353.4	$7,000	$35	$197	23.9%	314.7	$3,700	$20	$118	32.9612	-115.71232
st1775	CA	Imperial	150	26.9%	353.4	$7,001	$35	$197	23.9%	314.7	$3,701	$20	$118	32.98176	-115.71232
st1776	CA	Imperial	150	27.0%	354.3	$7,001	$35	$197	24.1%	316.3	$3,701	$20	$117	33.00232	-115.71232
st1798	CA	Imperial	150	26.9%	353.4	$7,000	$35	$197	23.9%	314.7	$3,700	$20	$118	32.9612	-115.68808
st1799	CA	Imperial	150	26.9%	353.4	$7,001	$35	$197	23.9%	314.7	$3,701	$20	$118	32.98176	-115.68808
st1800	CA	Imperial	150	27.0%	354.3	$7,001	$35	$197	24.1%	316.3	$3,701	$20	$117	33.00232	-115.68808
st1832	CA	Imperial	150	26.6%	349.2	$7,000	$35	$199	23.7%	311.1	$3,700	$20	$119	32.67395	-115.6396
st2208	CA	Imperial	150	26.9%	354.0	$7,001	$35	$197	24.0%	315.8	$3,701	$20	$117	33.00232	-115.27597
st2232	CA	Imperial	150	26.9%	354.0	$7,000	$35	$197	24.0%	315.8	$3,700	$20	$117	33.00232	-115.25173
st2255	CA	Imperial	150	26.8%	351.5	$7,001	$35	$198	23.8%	313.1	$3,701	$20	$118	32.98176	-115.22749
st2289	CA	Imperial	150	27.2%	357.9	$7,000	$35	$194	24.3%	319.3	$3,700	$20	$116	32.69445	-115.179
st2290	CA	Imperial	150	27.2%	357.9	$7,000	$35	$194	24.3%	319.3	$3,700	$20	$116	32.71494	-115.179
st2313	CA	Imperial	150	27.2%	357.9	$7,000	$35	$194	24.3%	319.3	$3,700	$20	$116	32.69445	-115.15476
st2326	CA	Imperial	150	27.1%	355.5	$7,001	$35	$196	24.2%	317.3	$3,701	$20	$117	32.9612	-115.15476
st2337	CA	Imperial	150	27.2%	357.9	$7,000	$35	$194	24.3%	319.3	$3,700	$20	$116	32.69445	-115.13052
st2348	CA	Imperial	150	27.1%	355.5	$7,001	$35	$196	24.2%	317.3	$3,701	$20	$117	32.92011	-115.13052
st2349	CA	Imperial	150	27.1%	355.5	$7,001	$35	$196	24.2%	317.3	$3,701	$20	$117	32.94066	-115.13052
st2361	CA	Imperial	150	27.2%	357.9	$7,000	$35	$194	24.3%	319.3	$3,700	$20	$116	32.69445	-115.10628
st2370	CA	Imperial	150	27.2%	358.0	$7,000	$35	$194	24.3%	319.6	$3,700	$20	$116	32.87905	-115.10628
st2371	CA	Imperial	150	27.1%	355.5	$7,001	$35	$196	24.2%	317.3	$3,701	$20	$117	32.89958	-115.10628
st2385	CA	Imperial	150	27.4%	360.0	$7,000	$35	$193	24.4%	320.6	$3,700	$20	$116	32.69445	-115.08204
st2393	CA	Imperial	150	27.1%	356.3	$7,002	$35	$195	24.1%	316.7	$3,702	$20	$117	32.85851	-115.08204
st2394	CA	Imperial	150	27.1%	356.3	$7,002	$35	$195	24.1%	316.7	$3,702	$20	$117	32.87905	-115.08204
st2395	CA	Imperial	150	27.2%	357.4	$7,002	$35	$195	24.2%	318.4	$3,702	$20	$116	32.89958	-115.08204
st2399	CA	Imperial	150	27.2%	357.4	$7,001	$35	$195	24.2%	318.4	$3,701	$20	$116	32.98176	-115.08204
st2417	CA	Imperial	150	27.1%	356.3	$7,004	$35	$195	24.1%	316.7	$3,704	$20	$117	32.85851	-115.05779
st2418	CA	Imperial	150	27.1%	356.3	$7,003	$35	$195	24.1%	316.7	$3,703	$20	$117	32.87905	-115.05779
st2422	CA	Imperial	150	27.2%	357.4	$7,002	$35	$195	24.2%	318.4	$3,702	$20	$116	32.9612	-115.05779
st2439	CA	Imperial	150	27.1%	356.3	$7,002	$35	$195	24.1%	316.7	$3,702	$20	$117	32.81747	-115.03355
st2440	CA	Imperial	150	27.1%	356.3	$7,003	$35	$195	24.1%	316.7	$3,703	$20	$117	32.83799	-115.03355
st2441	CA	Imperial	150	27.1%	356.3	$7,005	$35	$196	24.1%	316.7	$3,705	$20	$117	32.85851	-115.03355
st2445	CA	Imperial	150	27.2%	357.4	$7,002	$35	$195	24.2%	318.4	$3,702	$20	$116	32.94066	-115.03355
st2448	CA	Imperial	150	27.1%	356.3	$7,001	$35	$195	24.2%	317.4	$3,701	$20	$117	33.00232	-115.03355
st2472	CA	Imperial	150	27.1%	356.3	$7,001	$35	$195	24.2%	317.4	$3,701	$20	$117	33.00232	-115.00931
st2487	CA	Imperial	150	27.2%	358.0	$7,003	$35	$195	24.3%	319.8	$3,703	$20	$116	32.81747	-114.98507
st2490	CA	Imperial	150	27.2%	358.0	$7,003	$35	$194	24.3%	319.8	$3,703	$20	$116	32.87905	-114.98507
st2512	CA	Imperial	150	27.2%	358.0	$7,005	$35	$195	24.3%	319.8	$3,705	$20	$116	32.83799	-114.96083
st2514	CA	Imperial	150	27.2%	358.0	$7,002	$35	$194	24.3%	319.8	$3,702	$20	$116	32.87905	-114.96083
st2535	CA	Imperial	150	27.2%	358.0	$7,003	$35	$195	24.3%	319.8	$3,703	$20	$116	32.81747	-114.93658
st2536	CA	Imperial	150	27.2%	358.0	$7,004	$35	$195	24.3%	319.8	$3,704	$20	$116	32.83799	-114.93658
st2537	CA	Imperial	150	27.2%	358.0	$7,002	$35	$194	24.3%	319.8	$3,702	$20	$116	32.85851	-114.93658
st2540	CA	Imperial	150	27.1%	355.8	$7,001	$35	$196	24.2%	317.9	$3,701	$20	$117	32.92011	-114.93658
st2542	CA	Imperial	150	27.1%	355.8	$7,001	$35	$196	24.2%	317.9	$3,701	$20	$117	32.9612	-114.93658
st2558	CA	Imperial	150	27.2%	358.0	$7,002	$35	$194	24.3%	319.8	$3,702	$20	$116	32.79695	-114.91234
st2563	CA	Imperial	150	27.1%	355.8	$7,001	$35	$196	24.2%	317.9	$3,701	$20	$117	32.89958	-114.91234
st2565	CA	Imperial	150	27.1%	355.8	$7,002	$35	$196	24.2%	317.9	$3,702	$20	$117	32.94066	-114.91234
st2566	CA	Imperial	150	27.1%	355.8	$7,001	$35	$196	24.2%	317.9	$3,701	$20	$117	32.9612	-114.91234
st2578	CA	Imperial	150	27.4%	359.6	$7,002	$35	$194	24.5%	321.4	$3,702	$20	$115	32.71494	-114.8881
st2579	CA	Imperial	150	27.4%	359.6	$7,000	$35	$194	24.5%	321.4	$3,700	$20	$115	32.73543	-114.8881
st2580	CA	Imperial	150	27.4%	359.6	$7,001	$35	$194	24.5%	321.4	$3,701	$20	$115	32.75593	-114.8881
st2581	CA	Imperial	150	27.4%	359.6	$7,002	$35	$194	24.5%	321.4	$3,702	$20	$115	32.77643	-114.8881
st2583	CA	Imperial	150	27.2%	358.0	$7,001	$35	$194	24.3%	319.8	$3,701	$20	$116	32.81747	-114.8881
st2584	CA	Imperial	150	27.2%	358.0	$7,001	$35	$194	24.3%	319.8	$3,701	$20	$116	32.83799	-114.8881
st2586	CA	Imperial	150	27.2%	358.0	$7,000	$35	$194	24.3%	319.8	$3,700	$20	$116	32.87905	-114.8881
st2587	CA	Imperial	150	27.1%	355.8	$7,001	$35	$196	24.2%	317.9	$3,701	$20	$117	32.89958	-114.8881
st2588	CA	Imperial	150	27.1%	355.8	$7,001	$35	$196	24.2%	317.9	$3,701	$20	$117	32.92011	-114.8881
st2602	CA	Imperial	150	27.1%	355.8	$7,003	$35	$196	24.2%	317.4	$3,703	$20	$117	32.71494	-114.86386
st2604	CA	Imperial	150	27.1%	355.8	$7,000	$35	$196	24.2%	317.4	$3,700	$20	$117	32.75593	-114.86386
st2605	CA	Imperial	150	27.1%	355.8	$7,001	$35	$196	24.2%	317.4	$3,701	$20	$117	32.77643	-114.86386
st2612	CA	Imperial	150	27.0%	355.3	$7,001	$35	$196	24.1%	317.0	$3,701	$20	$117	32.92011	-114.86386
st2626	CA	Imperial	150	27.1%	355.8	$7,002	$35	$196	24.2%	317.4	$3,702	$20	$117	32.71494	-114.83962
st2633	CA	Imperial	150	27.2%	357.0	$7,000	$35	$195	24.3%	318.8	$3,700	$20	$116	32.85851	-114.83962
st2650	CA	Imperial	150	27.1%	355.8	$7,001	$35	$196	24.2%	317.4	$3,701	$20	$117	32.71494	-114.81537
st2651	CA	Imperial	150	27.1%	355.8	$7,001	$35	$196	24.2%	317.4	$3,701	$20	$117	32.73543	-114.81537
st2654	CA	Imperial	150	27.2%	357.0	$7,000	$35	$195	24.3%	318.8	$3,700	$20	$116	32.79695	-114.81537
st2674	CA	Imperial	150	27.1%	355.8	$7,000	$35	$196	24.2%	317.4	$3,700	$20	$117	32.71494	-114.79113
st2677	CA	Imperial	150	27.1%	355.8	$7,000	$35	$196	24.2%	317.4	$3,700	$20	$117	32.77643	-114.79113
st2685	CA	Imperial	150	27.0%	355.3	$7,001	$35	$196	24.1%	317.0	$3,701	$20	$117	32.94066	-114.79113
st2686	CA	Imperial	150	27.0%	355.3	$7,001	$35	$196	24.1%	317.0	$3,701	$20	$117	32.9612	-114.79113
st2711	CA	Imperial	150	27.0%	354.8	$7,001	$35	$196	24.1%	316.6	$3,701	$20	$117	32.98176	-114.76689
st2754	CA	Imperial	150	26.9%	353.0	$7,000	$35	$197	23.9%	314.5	$3,700	$20	$118	32.87905	-114.71841
st2756	CA	Imperial	150	27.0%	354.8	$7,000	$35	$196	24.1%	316.6	$3,700	$20	$117	32.92011	-114.71841
st2757	CA	Imperial	150	27.0%	354.8	$7,001	$35	$196	24.1%	316.6	$3,701	$20	$117	32.94066	-114.71841
st2758	CA	Imperial	150	27.0%	354.8	$7,001	$35	$196	24.1%	316.6	$3,701	$20	$117	32.9612	-114.71841
st2777	CA	Imperial	150	26.9%	353.0	$7,001	$35	$197	23.9%	314.5	$3,701	$20	$118	32.85851	-114.69417
st2778	CA	Imperial	150	26.9%	353.0	$7,000	$35	$197	23.9%	314.5	$3,700	$20	$118	32.87905	-114.69417
st2780	CA	Imperial	150	27.0%	354.8	$7,000	$35	$196	24.1%	316.6	$3,700	$20	$117	32.92011	-114.69417
st2781	CA	Imperial	150	27.0%	354.8	$7,001	$35	$196	24.1%	316.6	$3,701	$20	$117	32.94066	-114.69417
st2782	CA	Imperial	150	27.0%	354.8	$7,001	$35	$196	24.1%	316.6	$3,701	$20	$117	32.9612	-114.69417
st2802	CA	Imperial	150	27.1%	355.9	$7,001	$35	$196	24.2%	318.2	$3,701	$20	$116	32.87905	-114.66993

				Base Case One-Axis Tracking Crystalline Solar PV					**Sensitivity Case** 20 Degree Fixed Tilt Thin Film Solar PV						
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
st2803	CA	Imperial	150	27.1%	356.5	$7,000	$35	$195	24.2%	318.2	$3,700	$20	$116	32.89958	-114.66993
st2804	CA	Imperial	150	27.1%	356.5	$7,001	$35	$195	24.2%	318.2	$3,701	$20	$117	32.92011	-114.66993
st5380	CA	Imperial	150	26.8%	352.6	$7,000	$35	$197	23.9%	314.4	$3,700	$20	$118	33.0846	-116.05171
st5381	CA	Imperial	150	27.0%	354.7	$7,000	$35	$196	24.1%	316.5	$3,700	$20	$117	33.10519	-116.05171
st5404	CA	Imperial	150	26.8%	352.6	$7,000	$35	$197	23.9%	314.4	$3,700	$20	$118	33.0846	-116.02747
st5426	CA	Imperial	150	26.8%	352.6	$7,002	$35	$197	23.9%	314.4	$3,702	$20	$118	33.04346	-116.00323
st5427	CA	Imperial	150	26.8%	352.6	$7,002	$35	$197	23.9%	314.4	$3,702	$20	$118	33.06402	-116.00323
st5428	CA	Imperial	150	26.8%	352.6	$7,000	$35	$197	23.9%	314.4	$3,700	$20	$118	33.0846	-116.00323
st5451	CA	Imperial	150	26.8%	351.6	$7,001	$35	$198	23.8%	312.7	$3,701	$20	$119	33.06402	-115.97898
st5461	CA	Imperial	150	27.2%	357.4	$7,000	$35	$195	24.3%	319.2	$3,700	$20	$116	33.27002	-115.97898
st5462	CA	Imperial	150	26.7%	350.4	$7,000	$35	$199	23.7%	311.3	$3,700	$20	$119	33.29065	-115.97898
st5463	CA	Imperial	150	26.7%	350.4	$7,000	$35	$199	23.7%	311.3	$3,700	$20	$119	33.31128	-115.97898
st5485	CA	Imperial	150	27.2%	357.4	$7,000	$35	$195	24.3%	319.2	$3,700	$20	$116	33.27002	-115.95474
st5487	CA	Imperial	150	26.7%	350.4	$7,000	$35	$199	23.7%	311.3	$3,700	$20	$119	33.31128	-115.95474
st5532	CA	Imperial	150	27.2%	357.4	$7,002	$35	$195	24.3%	319.2	$3,702	$20	$116	33.2494	-115.90626
st5598	CA	Imperial	150	27.0%	354.3	$7,000	$35	$197	24.0%	316.0	$3,700	$20	$117	33.12578	-115.83353
st5599	CA	Imperial	150	27.0%	354.3	$7,000	$35	$197	24.0%	316.0	$3,700	$20	$117	33.14637	-115.83353
st5641	CA	Imperial	150	27.0%	354.3	$7,004	$35	$197	24.1%	316.3	$3,704	$20	$117	33.02289	-115.78505
st5642	CA	Imperial	150	27.0%	354.3	$7,004	$35	$197	24.1%	316.3	$3,704	$20	$117	33.04346	-115.78505
st5643	CA	Imperial	150	27.0%	354.3	$7,003	$35	$197	24.1%	316.3	$3,703	$20	$117	33.06402	-115.78505
st5644	CA	Imperial	150	27.0%	354.3	$7,001	$35	$197	24.1%	316.3	$3,701	$20	$117	33.0846	-115.78505
st5665	CA	Imperial	150	27.0%	354.3	$7,003	$35	$197	24.1%	316.3	$3,703	$20	$117	33.02289	-115.76081
st5666	CA	Imperial	150	27.0%	354.3	$7,003	$35	$197	24.1%	316.3	$3,703	$20	$117	33.04346	-115.76081
st5667	CA	Imperial	150	27.0%	354.3	$7,002	$35	$197	24.1%	316.3	$3,702	$20	$117	33.06402	-115.76081
st5668	CA	Imperial	150	27.0%	354.3	$7,000	$35	$197	24.1%	316.3	$3,700	$20	$117	33.0846	-115.76081
st5689	CA	Imperial	150	27.0%	354.3	$7,001	$35	$197	24.1%	316.3	$3,701	$20	$117	33.02289	-115.73657
st5690	CA	Imperial	150	27.0%	354.3	$7,001	$35	$197	24.1%	316.3	$3,701	$20	$117	33.04346	-115.73657
st5691	CA	Imperial	150	27.0%	354.3	$7,000	$35	$197	24.1%	316.3	$3,700	$20	$117	33.06402	-115.73657
st5692	CA	Imperial	150	27.0%	354.3	$7,001	$35	$197	24.1%	316.3	$3,701	$20	$117	33.0846	-115.73657
st5707	CA	Imperial	150	27.2%	357.6	$7,002	$35	$195	24.4%	320.1	$3,702	$20	$116	33.39386	-115.73657
st5713	CA	Imperial	150	27.0%	354.3	$7,000	$35	$197	24.1%	316.3	$3,700	$20	$117	33.02289	-115.71232
st5714	CA	Imperial	150	27.0%	354.3	$7,000	$35	$197	24.1%	316.3	$3,700	$20	$117	33.04346	-115.71232
st5731	CA	Imperial	150	27.2%	357.6	$7,000	$35	$195	24.4%	320.1	$3,700	$20	$116	33.39386	-115.71232
st5754	CA	Imperial	150	27.0%	354.3	$7,000	$35	$196	23.9%	314.0	$3,700	$20	$118	33.37321	-115.68808
st5756	CA	Imperial	150	27.2%	357.6	$7,000	$35	$195	24.4%	320.1	$3,700	$20	$116	33.41451	-115.68808
st5825	CA	Imperial	150	26.7%	350.9	$7,001	$35	$198	23.7%	311.3	$3,701	$20	$119	33.35256	-115.61536
st5848	CA	Imperial	150	26.7%	350.9	$7,001	$35	$198	23.7%	311.3	$3,701	$20	$119	33.33191	-115.59111
st5849	CA	Imperial	150	26.7%	350.9	$7,001	$35	$198	23.7%	311.3	$3,701	$20	$119	33.35256	-115.59111
st5850	CA	Imperial	150	26.7%	350.9	$7,001	$35	$198	23.7%	311.3	$3,701	$20	$119	33.37321	-115.59111
st5873	CA	Imperial	150	27.3%	358.1	$7,000	$35	$194	24.3%	319.8	$3,700	$20	$116	33.35256	-115.56687
st5963	CA	Imperial	150	26.9%	353.7	$7,000	$35	$197	24.0%	315.5	$3,700	$20	$117	33.22878	-115.46991
st5987	CA	Imperial	150	26.9%	353.7	$7,001	$35	$197	24.0%	315.5	$3,701	$20	$117	33.22878	-115.44566
st5988	CA	Imperial	150	26.9%	353.7	$7,000	$35	$197	24.0%	315.5	$3,700	$20	$117	33.2494	-115.44566
st6032	CA	Imperial	150	27.2%	357.3	$7,000	$35	$195	24.3%	319.3	$3,700	$20	$116	33.16696	-115.39718
st6055	CA	Imperial	150	26.9%	353.4	$7,001	$35	$197	24.0%	315.3	$3,701	$20	$118	33.14637	-115.37294
st6057	CA	Imperial	150	26.9%	353.4	$7,001	$35	$197	24.0%	315.3	$3,701	$20	$118	33.18756	-115.37294
st6099	CA	Imperial	150	27.1%	356.6	$7,001	$35	$195	24.2%	318.5	$3,701	$20	$116	33.06402	-115.32446
st6337	CA	Imperial	150	27.1%	356.3	$7,001	$35	$195	24.2%	317.4	$3,701	$20	$117	33.02289	-115.08204
st6385	CA	Imperial	150	27.1%	356.3	$7,000	$35	$195	24.2%	317.4	$3,700	$20	$117	33.02289	-115.03355
st6409	CA	Imperial	150	27.1%	356.3	$7,001	$35	$195	24.2%	317.4	$3,701	$20	$117	33.02289	-115.00931
st6607	CA	Imperial	150	27.3%	358.5	$7,001	$35	$194	24.4%	320.8	$3,701	$20	$116	33.14637	-114.81537
st6621	CA	Imperial	150	26.8%	352.4	$7,001	$35	$198	24.0%	314.9	$3,701	$20	$118	33.43517	-114.81537
st6632	CA	Imperial	150	27.3%	358.5	$7,000	$35	$194	24.4%	320.8	$3,700	$20	$116	33.16696	-114.79113
st6644	CA	Imperial	150	26.8%	352.4	$7,000	$35	$198	24.0%	314.9	$3,700	$20	$118	33.41451	-114.79113
st6645	CA	Imperial	150	26.8%	352.4	$7,001	$35	$198	24.0%	314.9	$3,701	$20	$118	33.43517	-114.79113
st6656	CA	Imperial	150	27.2%	357.9	$7,001	$35	$195	24.3%	319.8	$3,701	$20	$116	33.16696	-114.76689
st6668	CA	Imperial	150	26.6%	349.9	$7,001	$35	$199	23.8%	313.0	$3,701	$20	$118	33.41451	-114.76689
st6681	CA	Imperial	150	27.2%	357.9	$7,001	$35	$195	24.3%	319.8	$3,701	$20	$116	33.18756	-114.74265
st6682	CA	Imperial	150	27.0%	354.9	$7,001	$35	$196	24.1%	317.2	$3,701	$20	$117	33.20817	-114.74265
st6683	CA	Imperial	150	27.0%	354.9	$7,001	$35	$196	24.1%	317.2	$3,701	$20	$117	33.22878	-114.74265
st6705	CA	Imperial	150	27.2%	357.9	$7,001	$35	$195	24.3%	319.8	$3,701	$20	$116	33.18756	-114.71841
st6706	CA	Imperial	150	27.0%	354.9	$7,001	$35	$196	24.1%	317.2	$3,701	$20	$117	33.20817	-114.71841
st6707	CA	Imperial	150	27.0%	354.9	$7,001	$35	$196	24.1%	317.2	$3,701	$20	$117	33.22878	-114.71841
st2268	CA	Imperial	150	26.8%	352.2	$7,001	$35	$198	23.9%	313.5	$3,701	$20	$118	32.75593	-115.20325
st35145	CA	Inyo	150	27.2%	357.3	$7,000	$35	$195	24.5%	322.3	$3,700	$20	$115	35.80306	-117.86985
st35727	CA	Inyo	150	27.3%	358.5	$7,003	$35	$194	24.6%	323.9	$3,703	$20	$115	35.95203	-117.2638
st35728	CA	Inyo	150	27.3%	358.5	$7,004	$35	$194	24.6%	323.9	$3,704	$20	$115	35.97334	-117.2638
st35750	CA	Inyo	150	27.3%	358.5	$7,002	$35	$194	24.6%	323.9	$3,702	$20	$115	35.95203	-117.23956
st35751	CA	Inyo	150	27.3%	358.5	$7,002	$35	$194	24.6%	323.9	$3,702	$20	$114	35.97334	-117.23956
st35752	CA	Inyo	150	27.3%	359.1	$7,001	$35	$194	24.7%	324.8	$3,701	$20	$114	35.99465	-117.23956
st35773	CA	Inyo	150	27.3%	358.5	$7,001	$35	$194	24.6%	323.9	$3,701	$20	$114	35.95203	-117.21532
st35774	CA	Inyo	150	27.3%	358.5	$7,001	$35	$194	24.6%	323.9	$3,701	$20	$114	35.97334	-117.21532
st36734	CA	Inyo	150	26.3%	345.4	$7,000	$35	$202	23.5%	308.8	$3,700	$20	$120	35.8456	-116.19716
st36895	CA	Inyo	150	26.6%	350.0	$7,000	$35	$199	23.8%	313.3	$3,700	$20	$118	35.8456	-116.02747
st36970	CA	Inyo	150	26.6%	349.9	$7,000	$35	$199	23.9%	314.1	$3,700	$20	$118	35.97334	-115.95474
st36971	CA	Inyo	150	26.6%	349.9	$7,000	$35	$199	23.9%	314.1	$3,700	$20	$118	35.99465	-115.95474
st36994	CA	Inyo	150	26.6%	349.9	$7,000	$35	$199	23.9%	314.1	$3,700	$20	$118	35.99465	-115.9305
st37015	CA	Inyo	150	26.6%	349.9	$7,000	$35	$199	23.9%	314.1	$3,700	$20	$118	35.95203	-115.90626
st37016	CA	Inyo	150	26.6%	349.9	$7,000	$35	$199	23.9%	314.1	$3,700	$20	$118	35.97334	-115.90626
st37017	CA	Inyo	150	26.6%	349.9	$7,000	$35	$199	23.9%	314.1	$3,700	$20	$118	35.99465	-115.90626
st37038	CA	Inyo	150	26.3%	345.1	$7,000	$35	$202	23.5%	309.4	$3,700	$20	$120	35.95203	-115.88202
st37039	CA	Inyo	150	26.3%	345.1	$7,000	$35	$202	23.5%	309.4	$3,700	$20	$120	35.97334	-115.88202
st37061	CA	Inyo	150	26.3%	345.1	$7,000	$35	$202	23.5%	309.4	$3,700	$20	$120	35.95203	-115.85777
st37261	CA	Inyo	150	26.6%	349.7	$7,000	$35	$199	23.9%	314.6	$3,700	$20	$118	35.80306	-115.6396
st41804	CA	Inyo	150	26.4%	346.4	$7,001	$35	$201	23.7%	311.1	$3,701	$20	$119	36.50783	-118.0153
st41817	CA	Inyo	150	26.2%	344.8	$7,000	$35	$202	23.2%	304.8	$3,700	$20	$122	36.27219	-117.99106
st41820	CA	Inyo	150	26.1%	343.2	$7,002	$35	$203	23.3%	306.1	$3,702	$20	$121	36.33638	-117.99106
st41821	CA	Inyo	150	26.1%	343.2	$7,002	$35	$203	23.3%	306.1	$3,702	$20	$121	36.35779	-117.99106
st41822	CA	Inyo	150	26.1%	343.2	$7,001	$35	$203	23.3%	306.1	$3,701	$20	$121	36.37921	-117.99106
st41826	CA	Inyo	150	26.1%	342.7	$7,003	$35	$203	23.3%	305.9	$3,703	$20	$121	36.46493	-117.99106
st41827	CA	Inyo	150	26.1%	342.7	$7,003	$35	$203	23.3%	305.9	$3,703	$20	$121	36.48638	-117.99106
st41828	CA	Inyo	150	26.4%	346.4	$7,003	$35	$201	23.7%	311.1	$3,703	$20	$119	36.50783	-117.99106
st41844	CA	Inyo	150	26.2%	344.6	$7,002	$35	$202	23.4%	306.9	$3,702	$20	$121	36.33638	-117.96682

			Base Case One-Axis Tracking Crystalline Solar PV						Sensitivity Case 20 Degree Fixed Tilt Thin Film Solar PV						
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
st41845	CA	Inyo	150	26.2%	344.6	$7,003	$35	$202	23.4%	306.9	$3,703	$20	$121	36.35779	-117.96682
st41848	CA	Inyo	150	26.2%	343.6	$7,002	$35	$203	23.4%	307.2	$3,702	$20	$121	36.42206	-117.96682
st41849	CA	Inyo	150	26.2%	343.6	$7,003	$35	$203	23.4%	307.2	$3,703	$20	$121	36.44349	-117.96682
st41850	CA	Inyo	150	26.2%	343.6	$7,004	$35	$203	23.4%	307.2	$3,704	$20	$121	36.46493	-117.96682
st41851	CA	Inyo	150	26.2%	343.6	$7,004	$35	$203	23.4%	307.2	$3,704	$20	$121	36.48638	-117.96682
st41852	CA	Inyo	150	26.8%	351.8	$7,004	$35	$198	24.1%	316.1	$3,704	$20	$117	36.50783	-117.96682
st41868	CA	Inyo	150	26.2%	344.6	$7,001	$35	$202	23.4%	306.9	$3,701	$20	$121	36.33638	-117.94258
st41869	CA	Inyo	150	26.2%	344.6	$7,002	$35	$202	23.4%	306.9	$3,702	$20	$121	36.35779	-117.94258
st41870	CA	Inyo	150	26.2%	344.6	$7,003	$35	$202	23.4%	306.9	$3,703	$20	$121	36.37921	-117.94258
st41871	CA	Inyo	150	26.2%	343.6	$7,003	$35	$203	23.4%	307.2	$3,703	$20	$121	36.40063	-117.94258
st41872	CA	Inyo	150	26.2%	343.6	$7,003	$35	$203	23.4%	307.2	$3,703	$20	$121	36.42206	-117.94258
st41873	CA	Inyo	150	26.2%	343.6	$7,004	$35	$203	23.4%	307.2	$3,704	$20	$121	36.44349	-117.94258
st41876	CA	Inyo	150	26.8%	351.8	$7,002	$35	$198	24.1%	316.1	$3,702	$20	$117	36.50783	-117.94258
st41893	CA	Inyo	150	26.2%	344.6	$7,001	$35	$202	23.4%	306.9	$3,701	$20	$121	36.35779	-117.91833
st41894	CA	Inyo	150	26.2%	344.6	$7,002	$35	$202	23.4%	306.9	$3,702	$20	$121	36.37921	-117.91833
st41895	CA	Inyo	150	26.2%	343.6	$7,003	$35	$203	23.4%	307.2	$3,703	$20	$121	36.40063	-117.91833
st41896	CA	Inyo	150	26.2%	343.6	$7,005	$35	$203	23.4%	307.2	$3,705	$20	$121	36.42206	-117.91833
st41899	CA	Inyo	150	26.2%	343.6	$7,002	$35	$203	23.4%	307.2	$3,702	$20	$121	36.48638	-117.91833
st41919	CA	Inyo	150	26.2%	343.6	$7,002	$35	$203	23.4%	307.2	$3,702	$20	$121	36.40063	-117.89409
st41920	CA	Inyo	150	26.2%	343.6	$7,003	$35	$203	23.4%	307.2	$3,703	$20	$121	36.42206	-117.89409
st41922	CA	Inyo	150	26.2%	343.6	$7,002	$35	$203	23.4%	307.2	$3,702	$20	$121	36.46493	-117.89409
st42505	CA	Inyo	150	27.3%	358.9	$7,000	$35	$194	24.7%	324.6	$3,700	$20	$114	36.10128	-117.28805
st42506	CA	Inyo	150	27.3%	358.9	$7,000	$35	$194	24.7%	324.6	$3,700	$20	$114	36.12263	-117.28805
st42527	CA	Inyo	150	27.3%	359.1	$7,001	$35	$194	24.7%	324.8	$3,701	$20	$114	36.0586	-117.2638
st42528	CA	Inyo	150	27.3%	359.1	$7,000	$35	$194	24.7%	324.8	$3,700	$20	$114	36.07994	-117.2638
st43313	CA	Inyo	150	26.2%	344.4	$7,000	$35	$202	23.5%	308.6	$3,700	$20	$120	36.44349	-116.48807
st43353	CA	Inyo	150	26.6%	349.9	$7,000	$35	$199	23.9%	313.9	$3,700	$20	$118	36.27219	-116.43958
st43359	CA	Inyo	150	26.2%	344.4	$7,000	$35	$202	23.5%	308.6	$3,700	$20	$120	36.40063	-116.43958
st43376	CA	Inyo	150	26.6%	349.9	$7,001	$35	$199	23.9%	313.9	$3,701	$20	$118	36.25081	-116.41534
st43377	CA	Inyo	150	26.6%	349.9	$7,001	$35	$199	23.9%	313.9	$3,701	$20	$118	36.27219	-116.41534
st43378	CA	Inyo	150	26.4%	346.6	$7,000	$35	$201	23.7%	310.9	$3,700	$20	$119	36.29358	-116.41534
st43379	CA	Inyo	150	26.4%	346.6	$7,000	$35	$201	23.7%	310.9	$3,700	$20	$119	36.31498	-116.41534
st43380	CA	Inyo	150	26.4%	346.6	$7,001	$35	$201	23.7%	310.9	$3,701	$20	$119	36.33638	-116.41534
st43381	CA	Inyo	150	26.4%	346.6	$7,000	$35	$201	23.7%	310.9	$3,700	$20	$119	36.35779	-116.41534
st43382	CA	Inyo	150	26.4%	346.6	$7,001	$35	$201	23.7%	310.9	$3,701	$20	$119	36.37921	-116.41534
st43402	CA	Inyo	150	26.2%	344.6	$7,001	$35	$202	23.5%	308.7	$3,701	$20	$120	36.29358	-116.3911
st43403	CA	Inyo	150	26.4%	346.6	$7,000	$35	$201	23.7%	310.9	$3,700	$20	$119	36.31498	-116.3911
st43424	CA	Inyo	150	26.2%	344.6	$7,001	$35	$202	23.5%	308.7	$3,701	$20	$120	36.25081	-116.36686
st43425	CA	Inyo	150	26.2%	344.6	$7,002	$35	$202	23.5%	308.7	$3,702	$20	$120	36.27219	-116.36686
st43426	CA	Inyo	150	26.2%	344.6	$7,001	$35	$202	23.5%	308.7	$3,701	$20	$120	36.29358	-116.36686
st43452	CA	Inyo	150	26.4%	347.3	$7,000	$35	$200	23.7%	312.0	$3,700	$20	$119	36.33638	-116.34261
st43605	CA	Inyo	150	26.8%	351.6	$7,000	$35	$198	24.1%	316.1	$3,700	$20	$117	36.01596	-116.17292
st47337	CA	Inyo	150	26.0%	341.2	$7,000	$35	$204	23.3%	305.8	$3,700	$20	$121	36.98125	-118.25772
st47356	CA	Inyo	150	26.0%	341.2	$7,000	$35	$204	23.3%	305.8	$3,700	$20	$121	36.89495	-118.23348
st47359	CA	Inyo	150	26.0%	341.2	$7,000	$35	$204	23.3%	305.8	$3,700	$20	$121	36.95966	-118.23348
st47360	CA	Inyo	150	26.0%	341.2	$7,000	$35	$204	23.3%	305.8	$3,700	$20	$121	36.98125	-118.23348
st47398	CA	Inyo	150	26.3%	346.1	$7,000	$35	$201	23.7%	311.6	$3,700	$20	$119	36.80875	-118.185
st47399	CA	Inyo	150	26.3%	346.1	$7,000	$35	$201	23.7%	311.6	$3,700	$20	$119	36.83029	-118.185
st47419	CA	Inyo	150	26.4%	346.7	$7,000	$35	$201	23.7%	311.7	$3,700	$20	$119	36.76569	-118.16075
st47420	CA	Inyo	150	26.4%	346.7	$7,000	$35	$201	23.7%	311.7	$3,700	$20	$119	36.78721	-118.16075
st47421	CA	Inyo	150	26.3%	346.1	$7,000	$35	$201	23.7%	311.6	$3,700	$20	$119	36.80875	-118.16075
st47422	CA	Inyo	150	26.3%	346.1	$7,000	$35	$201	23.7%	311.6	$3,700	$20	$119	36.83029	-118.16075
st47441	CA	Inyo	150	26.4%	346.7	$7,000	$35	$201	23.7%	311.7	$3,700	$20	$119	36.74417	-118.13651
st47442	CA	Inyo	150	26.4%	346.7	$7,000	$35	$201	23.7%	311.7	$3,700	$20	$119	36.76569	-118.13651
st47443	CA	Inyo	150	26.4%	346.7	$7,000	$35	$201	23.7%	311.7	$3,700	$20	$119	36.78721	-118.13651
st47444	CA	Inyo	150	26.3%	346.1	$7,000	$35	$201	23.7%	311.6	$3,700	$20	$119	36.80875	-118.13651
st47462	CA	Inyo	150	26.4%	346.7	$7,000	$35	$201	23.7%	311.7	$3,700	$20	$119	36.70114	-118.11227
st47463	CA	Inyo	150	26.4%	346.7	$7,001	$35	$201	23.7%	311.7	$3,701	$20	$119	36.72265	-118.11227
st47464	CA	Inyo	150	26.4%	346.7	$7,000	$35	$201	23.7%	311.7	$3,700	$20	$119	36.74417	-118.11227
st47482	CA	Inyo	150	26.0%	342.2	$7,000	$35	$203	23.4%	307.3	$3,700	$20	$121	36.63665	-118.08803
st47483	CA	Inyo	150	26.0%	342.2	$7,000	$35	$203	23.4%	307.3	$3,700	$20	$121	36.65814	-118.08803
st47484	CA	Inyo	150	26.0%	342.2	$7,000	$35	$203	23.4%	307.3	$3,700	$20	$121	36.67964	-118.08803
st47485	CA	Inyo	150	26.4%	346.7	$7,001	$35	$201	23.7%	311.7	$3,701	$20	$119	36.70114	-118.08803
st47489	CA	Inyo	150	26.4%	346.7	$7,000	$35	$201	23.7%	311.7	$3,700	$20	$119	36.78721	-118.08803
st47504	CA	Inyo	150	27.0%	354.3	$7,000	$35	$196	24.3%	319.8	$3,700	$20	$116	36.61516	-118.06379
st47505	CA	Inyo	150	27.0%	354.3	$7,001	$35	$196	24.3%	319.8	$3,701	$20	$116	36.63665	-118.06379
st47506	CA	Inyo	150	27.0%	354.3	$7,002	$35	$197	24.3%	319.8	$3,702	$20	$116	36.65814	-118.06379
st47508	CA	Inyo	150	26.9%	354.0	$7,000	$35	$197	24.3%	319.6	$3,700	$20	$116	36.70114	-118.06379
st47509	CA	Inyo	150	26.9%	354.0	$7,000	$35	$197	24.3%	319.6	$3,700	$20	$116	36.72265	-118.06379
st47524	CA	Inyo	150	26.4%	346.4	$7,000	$35	$201	23.7%	311.1	$3,700	$20	$119	36.55074	-118.03954
st47525	CA	Inyo	150	26.4%	346.4	$7,001	$35	$201	23.7%	311.1	$3,701	$20	$119	36.5722	-118.03954
st47527	CA	Inyo	150	27.0%	354.3	$7,000	$35	$196	24.3%	319.8	$3,700	$20	$116	36.61516	-118.03954
st47528	CA	Inyo	150	27.0%	354.3	$7,000	$35	$196	24.3%	319.8	$3,700	$20	$116	36.63665	-118.03954
st47547	CA	Inyo	150	26.4%	346.4	$7,000	$35	$201	23.7%	311.1	$3,700	$20	$119	36.55074	-118.0153
st47549	CA	Inyo	150	27.0%	354.3	$7,000	$35	$196	24.3%	319.8	$3,700	$20	$116	36.59368	-118.0153
st47592	CA	Inyo	150	26.8%	351.8	$7,002	$35	$198	24.1%	316.1	$3,702	$20	$117	36.52928	-117.96682
st47593	CA	Inyo	150	26.8%	351.8	$7,001	$35	$198	24.1%	316.1	$3,701	$20	$117	36.55074	-117.96682
st47615	CA	Inyo	150	26.8%	351.8	$7,001	$35	$198	24.1%	316.1	$3,701	$20	$117	36.52928	-117.94258
st52739	CA	Inyo	150	25.8%	338.5	$7,000	$35	$206	23.1%	303.4	$3,700	$20	$122	37.4142	-118.57286
st52740	CA	Inyo	150	25.8%	338.5	$7,000	$35	$206	23.1%	303.4	$3,700	$20	$122	37.43591	-118.57286
st52830	CA	Inyo	150	26.4%	346.8	$7,000	$35	$201	23.8%	312.9	$3,700	$20	$118	37.39249	-118.4759
st52852	CA	Inyo	150	26.0%	341.9	$7,000	$35	$204	23.4%	307.0	$3,700	$20	$121	37.37079	-118.45165
st52853	CA	Inyo	150	26.4%	346.8	$7,000	$35	$201	23.8%	312.9	$3,700	$20	$118	37.39249	-118.45165
st52919	CA	Inyo	150	26.7%	350.7	$7,000	$35	$199	24.1%	316.8	$3,700	$20	$117	37.3274	-118.37893
st52939	CA	Inyo	150	25.8%	339.4	$7,000	$35	$205	23.2%	304.8	$3,700	$20	$122	37.26238	-118.35469
st52940	CA	Inyo	150	25.8%	339.4	$7,000	$35	$205	23.2%	304.8	$3,700	$20	$122	37.28405	-118.35469
st52941	CA	Inyo	150	26.7%	350.7	$7,001	$35	$199	24.1%	316.8	$3,701	$20	$117	37.30572	-118.35469
st52942	CA	Inyo	150	26.7%	350.7	$7,000	$35	$199	24.1%	316.8	$3,700	$20	$117	37.3274	-118.35469
st52943	CA	Inyo	150	26.7%	350.7	$7,000	$35	$199	24.1%	316.8	$3,700	$20	$117	37.34909	-118.35469
st52961	CA	Inyo	150	25.8%	339.4	$7,000	$35	$205	23.2%	304.8	$3,700	$20	$122	37.24072	-118.33044
st52962	CA	Inyo	150	25.8%	339.4	$7,000	$35	$205	23.2%	304.8	$3,700	$20	$122	37.26238	-118.33044
st52965	CA	Inyo	150	26.7%	350.7	$7,000	$35	$199	24.1%	316.8	$3,700	$20	$117	37.3274	-118.33044
st52966	CA	Inyo	150	26.7%	350.7	$7,000	$35	$199	24.1%	316.8	$3,700	$20	$117	37.34909	-118.33044

				Base Case **One-Axis Tracking Crystalline Solar PV**					**Sensitivity Case** **20 Degree Fixed Tilt Thin Film Solar PV**						
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
st52967	CA	Inyo	150	26.7%	350.7	$7,000	$35	$199	24.1%	316.8	$3,700	$20	$117	37.37079	-118.33044
st52985	CA	Inyo	150	25.8%	339.4	$7,000	$35	$205	23.2%	304.8	$3,700	$20	$122	37.26238	-118.3062
st52986	CA	Inyo	150	25.8%	339.4	$7,000	$35	$205	23.2%	304.8	$3,700	$20	$122	37.28405	-118.3062
st53005	CA	Inyo	150	26.6%	349.4	$7,000	$35	$199	24.0%	315.1	$3,700	$20	$118	37.1974	-118.28196
st53048	CA	Inyo	150	26.5%	348.6	$7,000	$35	$200	23.9%	314.3	$3,700	$20	$118	37.13249	-118.23348
st53240	CA	Inyo	150	26.4%	347.1	$7,001	$35	$201	23.9%	313.8	$3,701	$20	$118	37.30572	-118.03954
st53264	CA	Inyo	150	26.4%	347.1	$7,001	$35	$201	23.9%	313.8	$3,701	$20	$118	37.3274	-118.0153
st53430	CA	Inyo	150	26.8%	352.5	$7,001	$35	$198	24.3%	319.2	$3,701	$20	$116	37.43591	-117.84561
st53431	CA	Inyo	150	26.8%	352.5	$7,000	$35	$198	24.3%	319.2	$3,700	$20	$116	37.45763	-117.84561
st20631	CA	Kern	150	26.1%	343.3	$7,000	$35	$203	23.1%	303.8	$3,700	$20	$122	34.80995	-118.66983
st20679	CA	Kern	150	26.1%	343.3	$7,000	$35	$203	23.1%	303.8	$3,700	$20	$122	34.80995	-118.62135
st20703	CA	Kern	150	26.1%	343.3	$7,000	$35	$203	23.1%	303.8	$3,700	$20	$122	34.80995	-118.59711
st20751	CA	Kern	150	26.5%	348.2	$7,000	$35	$200	23.5%	309.0	$3,700	$20	$120	34.80995	-118.54862
st20800	CA	Kern	150	26.5%	348.2	$7,000	$35	$200	23.5%	309.0	$3,700	$20	$120	34.83095	-118.50014
st20848	CA	Kern	150	26.7%	351.3	$7,000	$35	$198	23.8%	312.9	$3,700	$20	$118	34.83095	-118.45165
st20873	CA	Kern	150	26.7%	351.3	$7,000	$35	$198	23.8%	312.9	$3,700	$20	$118	34.85196	-118.42741
st20898	CA	Kern	150	26.7%	351.3	$7,000	$35	$198	23.8%	312.9	$3,700	$20	$118	34.87298	-118.40317
st20922	CA	Kern	150	26.8%	352.1	$7,000	$35	$198	23.9%	314.0	$3,700	$20	$118	34.87298	-118.37893
st20994	CA	Kern	150	26.8%	352.1	$7,000	$35	$198	23.9%	314.0	$3,700	$20	$118	34.87298	-118.3062
st20995	CA	Kern	150	27.0%	354.8	$7,000	$35	$196	24.1%	316.5	$3,700	$20	$117	34.894	-118.3062
st20996	CA	Kern	150	27.0%	354.8	$7,000	$35	$196	24.1%	316.5	$3,700	$20	$117	34.91503	-118.3062
st20997	CA	Kern	150	27.0%	354.8	$7,000	$35	$196	24.1%	316.5	$3,700	$20	$117	34.93606	-118.3062
st21015	CA	Kern	150	27.0%	354.7	$7,000	$35	$196	24.1%	316.7	$3,700	$20	$117	34.80995	-118.28196
st21016	CA	Kern	150	27.0%	354.7	$7,000	$35	$196	24.1%	316.7	$3,700	$20	$117	34.83095	-118.28196
st21020	CA	Kern	150	27.1%	356.5	$7,000	$35	$195	24.2%	318.6	$3,700	$20	$116	34.91503	-118.28196
st21021	CA	Kern	150	27.1%	356.5	$7,000	$35	$195	24.2%	318.6	$3,700	$20	$116	34.93606	-118.28196
st21023	CA	Kern	150	27.1%	356.5	$7,000	$35	$195	24.2%	318.6	$3,700	$20	$116	34.97813	-118.28196
st21039	CA	Kern	150	27.0%	354.7	$7,000	$35	$196	24.1%	316.7	$3,700	$20	$117	34.80995	-118.25772
st21046	CA	Kern	150	27.1%	356.5	$7,000	$35	$195	24.2%	318.6	$3,700	$20	$116	34.95709	-118.25772
st21063	CA	Kern	150	27.0%	354.7	$7,000	$35	$196	24.1%	316.7	$3,700	$20	$117	34.80995	-118.23348
st21069	CA	Kern	150	27.1%	356.5	$7,000	$35	$195	24.2%	318.6	$3,700	$20	$116	34.93606	-118.23348
st21070	CA	Kern	150	27.1%	356.5	$7,000	$35	$195	24.2%	318.6	$3,700	$20	$116	34.95709	-118.23348
st21071	CA	Kern	150	27.1%	356.5	$7,000	$35	$195	24.2%	318.6	$3,700	$20	$116	34.97813	-118.23348
st21072	CA	Kern	150	27.0%	354.6	$7,000	$35	$196	24.1%	316.7	$3,700	$20	$117	34.99918	-118.23348
st21094	CA	Kern	150	27.1%	356.5	$7,000	$35	$195	24.2%	318.6	$3,700	$20	$116	34.95709	-118.20924
st21095	CA	Kern	150	27.1%	356.5	$7,000	$35	$195	24.2%	318.6	$3,700	$20	$116	34.97813	-118.20924
st21096	CA	Kern	150	27.0%	354.6	$7,000	$35	$196	24.1%	316.7	$3,700	$20	$117	34.99918	-118.20924
st21115	CA	Kern	150	27.3%	358.3	$7,000	$35	$194	24.4%	320.3	$3,700	$20	$116	34.894	-118.185
st21117	CA	Kern	150	27.3%	358.3	$7,000	$35	$194	24.4%	320.3	$3,700	$20	$116	34.93606	-118.185
st21139	CA	Kern	150	27.3%	358.3	$7,000	$35	$194	24.4%	320.3	$3,700	$20	$116	34.894	-118.16075
st21142	CA	Kern	150	27.3%	358.3	$7,000	$35	$194	24.4%	320.3	$3,700	$20	$116	34.95709	-118.16075
st21192	CA	Kern	150	27.2%	357.3	$7,000	$35	$195	24.3%	319.6	$3,700	$20	$116	34.99918	-118.11227
st21216	CA	Kern	150	27.2%	357.3	$7,000	$35	$195	24.3%	319.6	$3,700	$20	$116	34.99918	-118.08803
st21240	CA	Kern	150	27.4%	360.1	$7,000	$35	$193	24.6%	322.9	$3,700	$20	$115	34.99918	-118.06379
st21263	CA	Kern	150	27.4%	359.7	$7,000	$35	$194	24.5%	321.5	$3,700	$20	$115	34.97813	-118.03954
st21264	CA	Kern	150	27.4%	360.1	$7,000	$35	$193	24.6%	322.9	$3,700	$20	$115	34.99918	-118.03954
st21287	CA	Kern	150	27.4%	359.7	$7,000	$35	$194	24.5%	321.5	$3,700	$20	$115	34.97813	-118.0153
st21288	CA	Kern	150	27.4%	360.1	$7,000	$35	$193	24.6%	322.9	$3,700	$20	$115	34.99918	-118.0153
st21311	CA	Kern	150	27.4%	359.7	$7,001	$35	$194	24.5%	321.5	$3,701	$20	$115	34.97813	-117.99106
st21672	CA	Kern	150	27.4%	359.8	$7,000	$35	$193	24.6%	322.7	$3,700	$20	$115	34.99918	-117.62743
st26629	CA	Kern	150	25.3%	331.8	$7,000	$35	$210	22.2%	292.3	$3,700	$20	$127	35.27329	-119.61526
st27715	CA	Kern	150	25.6%	336.9	$7,000	$35	$207	22.7%	297.7	$3,700	$20	$124	35.40012	-118.52438
st27985	CA	Kern	150	27.0%	354.6	$7,000	$35	$196	24.1%	316.7	$3,700	$20	$117	35.02023	-118.23348
st28009	CA	Kern	150	27.0%	354.6	$7,000	$35	$196	24.1%	316.7	$3,700	$20	$117	35.02023	-118.20924
st28014	CA	Kern	150	26.7%	350.7	$7,000	$35	$198	23.8%	312.2	$3,700	$20	$119	35.12558	-118.20924
st28037	CA	Kern	150	27.2%	357.6	$7,000	$35	$195	24.4%	320.2	$3,700	$20	$116	35.1045	-118.185
st28038	CA	Kern	150	27.2%	357.6	$7,000	$35	$195	24.4%	320.2	$3,700	$20	$116	35.12558	-118.185
st28039	CA	Kern	150	27.2%	357.6	$7,000	$35	$195	24.4%	320.2	$3,700	$20	$116	35.14666	-118.185
st28061	CA	Kern	150	27.2%	357.6	$7,000	$35	$195	24.4%	320.2	$3,700	$20	$116	35.1045	-118.16075
st28062	CA	Kern	150	27.2%	357.6	$7,000	$35	$195	24.4%	320.2	$3,700	$20	$116	35.12558	-118.16075
st28063	CA	Kern	150	27.2%	357.6	$7,000	$35	$195	24.4%	320.2	$3,700	$20	$116	35.14666	-118.16075
st28085	CA	Kern	150	27.2%	357.6	$7,000	$35	$195	24.4%	320.2	$3,700	$20	$116	35.1045	-118.13651
st28086	CA	Kern	150	27.2%	357.6	$7,000	$35	$195	24.4%	320.2	$3,700	$20	$116	35.12558	-118.13651
st28087	CA	Kern	150	27.2%	357.6	$7,000	$35	$195	24.4%	320.2	$3,700	$20	$116	35.14666	-118.13651
st28088	CA	Kern	150	27.2%	357.6	$7,000	$35	$195	24.4%	320.2	$3,700	$20	$116	35.16776	-118.13651
st28089	CA	Kern	150	27.2%	357.6	$7,001	$35	$195	24.4%	320.2	$3,701	$20	$116	35.18885	-118.13651
st28105	CA	Kern	150	27.2%	357.3	$7,000	$35	$195	24.3%	319.6	$3,700	$20	$116	35.02023	-118.11227
st28108	CA	Kern	150	27.2%	357.3	$7,000	$35	$195	24.3%	319.6	$3,700	$20	$116	35.08342	-118.11227
st28109	CA	Kern	150	27.2%	357.6	$7,000	$35	$195	24.4%	320.2	$3,700	$20	$116	35.1045	-118.11227
st28110	CA	Kern	150	27.2%	357.6	$7,000	$35	$195	24.4%	320.2	$3,700	$20	$116	35.12558	-118.11227
st28111	CA	Kern	150	27.2%	357.6	$7,000	$35	$195	24.4%	320.2	$3,700	$20	$116	35.14666	-118.11227
st28112	CA	Kern	150	27.2%	357.6	$7,000	$35	$195	24.4%	320.2	$3,700	$20	$116	35.16776	-118.11227
st28113	CA	Kern	150	27.2%	357.6	$7,000	$35	$195	24.4%	320.2	$3,700	$20	$116	35.18885	-118.11227
st28131	CA	Kern	150	27.2%	357.3	$7,001	$35	$195	24.3%	319.6	$3,701	$20	$116	35.06236	-118.08803
st28133	CA	Kern	150	27.2%	357.6	$7,000	$35	$195	24.4%	320.2	$3,700	$20	$116	35.1045	-118.08803
st28134	CA	Kern	150	27.2%	357.6	$7,000	$35	$195	24.4%	320.2	$3,700	$20	$116	35.12558	-118.08803
st28135	CA	Kern	150	27.2%	357.6	$7,000	$35	$195	24.4%	320.2	$3,700	$20	$116	35.14666	-118.08803
st28136	CA	Kern	150	27.2%	357.6	$7,000	$35	$195	24.4%	320.2	$3,700	$20	$116	35.16776	-118.08803
st28137	CA	Kern	150	27.2%	357.6	$7,000	$35	$195	24.4%	320.2	$3,700	$20	$116	35.18885	-118.08803
st28138	CA	Kern	150	27.1%	355.7	$7,000	$35	$196	24.2%	318.1	$3,700	$20	$117	35.20996	-118.08803
st28139	CA	Kern	150	27.1%	355.7	$7,000	$35	$196	24.2%	318.1	$3,700	$20	$117	35.23106	-118.08803
st28155	CA	Kern	150	27.4%	360.1	$7,000	$35	$193	24.6%	322.9	$3,700	$20	$115	35.06236	-118.06379
st28157	CA	Kern	150	27.3%	359.4	$7,000	$35	$194	24.5%	322.0	$3,700	$20	$115	35.1045	-118.06379
st28158	CA	Kern	150	27.3%	359.4	$7,000	$35	$194	24.5%	322.0	$3,700	$20	$115	35.12558	-118.06379
st28159	CA	Kern	150	27.3%	359.4	$7,000	$35	$194	24.5%	322.0	$3,700	$20	$115	35.14666	-118.06379
st28160	CA	Kern	150	27.3%	359.4	$7,000	$35	$194	24.5%	322.0	$3,700	$20	$115	35.16776	-118.06379
st28161	CA	Kern	150	27.3%	359.4	$7,000	$35	$194	24.5%	322.0	$3,700	$20	$115	35.18885	-118.06379
st28162	CA	Kern	150	27.2%	357.3	$7,000	$35	$195	24.4%	320.6	$3,700	$20	$116	35.20996	-118.06379
st28163	CA	Kern	150	27.2%	357.3	$7,000	$35	$195	24.4%	320.6	$3,700	$20	$116	35.23106	-118.06379
st28177	CA	Kern	150	27.4%	360.1	$7,000	$35	$193	24.6%	322.9	$3,700	$20	$115	35.02023	-118.03954
st28178	CA	Kern	150	27.4%	360.1	$7,001	$35	$193	24.6%	322.9	$3,701	$20	$115	35.04129	-118.03954
st28179	CA	Kern	150	27.4%	360.1	$7,000	$35	$193	24.6%	322.9	$3,700	$20	$115	35.06236	-118.03954
st28182	CA	Kern	150	27.3%	359.4	$7,000	$35	$194	24.5%	322.0	$3,700	$20	$115	35.12558	-118.03954

				Base Case One-Axis Tracking Crystalline Solar PV					**Sensitivity Case** 20 Degree Fixed Tilt Thin Film Solar PV						
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
st28185	CA	Kern	150	27.3%	359.4	$7,000	$35	$194	24.5%	322.0	$3,700	$20	$115	35.18885	-118.03954
st28201	CA	Kern	150	27.4%	360.1	$7,000	$35	$193	24.6%	322.9	$3,700	$20	$115	35.02023	-118.0153
st28203	CA	Kern	150	27.4%	360.1	$7,000	$35	$193	24.6%	322.9	$3,700	$20	$115	35.06236	-118.0153
st28205	CA	Kern	150	27.3%	359.4	$7,000	$35	$194	24.5%	322.0	$3,700	$20	$115	35.1045	-118.0153
st28209	CA	Kern	150	27.3%	359.4	$7,000	$35	$194	24.5%	322.0	$3,700	$20	$115	35.18885	-118.0153
st28211	CA	Kern	150	27.2%	357.3	$7,000	$35	$195	24.4%	320.6	$3,700	$20	$116	35.23106	-118.0153
st28212	CA	Kern	150	27.2%	357.3	$7,001	$35	$195	24.4%	320.6	$3,701	$20	$116	35.25217	-118.0153
st28227	CA	Kern	150	27.4%	360.1	$7,000	$35	$193	24.6%	322.9	$3,700	$20	$115	35.06236	-117.99106
st28232	CA	Kern	150	27.3%	359.4	$7,000	$35	$194	24.5%	322.0	$3,700	$20	$115	35.16776	-117.99106
st28233	CA	Kern	150	27.3%	359.4	$7,000	$35	$194	24.5%	322.0	$3,700	$20	$115	35.18885	-117.99106
st28235	CA	Kern	150	27.2%	357.3	$7,000	$35	$195	24.4%	320.6	$3,700	$20	$116	35.23106	-117.99106
st28236	CA	Kern	150	27.2%	357.3	$7,000	$35	$195	24.4%	320.6	$3,700	$20	$116	35.25217	-117.99106
st28252	CA	Kern	150	27.5%	361.7	$7,000	$35	$192	24.7%	324.7	$3,700	$20	$114	35.08342	-117.96682
st28276	CA	Kern	150	27.5%	361.7	$7,000	$35	$192	24.7%	324.7	$3,700	$20	$114	35.08342	-117.94258
st28299	CA	Kern	150	27.5%	361.7	$7,000	$35	$192	24.7%	324.7	$3,700	$20	$114	35.06236	-117.91833
st28300	CA	Kern	150	27.5%	361.7	$7,000	$35	$192	24.7%	324.7	$3,700	$20	$114	35.08342	-117.91833
st28301	CA	Kern	150	27.5%	361.1	$7,000	$35	$193	24.7%	323.9	$3,700	$20	$114	35.1045	-117.91833
st28323	CA	Kern	150	27.5%	361.7	$7,000	$35	$192	24.7%	324.7	$3,700	$20	$114	35.06236	-117.89409
st28324	CA	Kern	150	27.5%	361.7	$7,000	$35	$192	24.7%	324.7	$3,700	$20	$114	35.08342	-117.89409
st28327	CA	Kern	150	27.5%	361.1	$7,000	$35	$193	24.7%	323.9	$3,700	$20	$114	35.14666	-117.89409
st28345	CA	Kern	150	27.6%	362.3	$7,000	$35	$192	24.7%	325.1	$3,700	$20	$114	35.02023	-117.86985
st28346	CA	Kern	150	27.6%	362.3	$7,000	$35	$192	24.7%	325.1	$3,700	$20	$114	35.04129	-117.86985
st28347	CA	Kern	150	27.6%	362.3	$7,000	$35	$192	24.7%	325.1	$3,700	$20	$114	35.06236	-117.86985
st28348	CA	Kern	150	27.6%	362.3	$7,000	$35	$192	24.7%	325.1	$3,700	$20	$114	35.08342	-117.86985
st28372	CA	Kern	150	27.6%	362.3	$7,000	$35	$192	24.7%	325.1	$3,700	$20	$114	35.08342	-117.84561
st28373	CA	Kern	150	27.6%	362.9	$7,000	$35	$192	24.8%	325.9	$3,700	$20	$114	35.1045	-117.84561
st28376	CA	Kern	150	27.6%	362.9	$7,000	$35	$192	24.8%	325.9	$3,700	$20	$114	35.16776	-117.84561
st28397	CA	Kern	150	27.6%	362.9	$7,000	$35	$192	24.8%	325.9	$3,700	$20	$114	35.1045	-117.82137
st28398	CA	Kern	150	27.6%	362.9	$7,000	$35	$192	24.8%	325.9	$3,700	$20	$114	35.12558	-117.82137
st28400	CA	Kern	150	27.6%	362.9	$7,000	$35	$192	24.8%	325.9	$3,700	$20	$114	35.16776	-117.82137
st28418	CA	Kern	150	27.6%	362.3	$7,000	$35	$192	24.7%	325.1	$3,700	$20	$114	35.04129	-117.79712
st28419	CA	Kern	150	27.6%	362.3	$7,000	$35	$192	24.7%	325.1	$3,700	$20	$114	35.06236	-117.79712
st28422	CA	Kern	150	27.6%	362.9	$7,000	$35	$192	24.8%	325.9	$3,700	$20	$114	35.12558	-117.79712
st28423	CA	Kern	150	27.6%	362.9	$7,000	$35	$192	24.8%	325.9	$3,700	$20	$114	35.14666	-117.79712
st28424	CA	Kern	150	27.6%	362.9	$7,000	$35	$192	24.8%	325.9	$3,700	$20	$114	35.16776	-117.79712
st28426	CA	Kern	150	27.5%	361.8	$7,000	$35	$192	24.7%	325.1	$3,700	$20	$114	35.20996	-117.79712
st28442	CA	Kern	150	27.6%	363.2	$7,000	$35	$192	24.8%	325.9	$3,700	$20	$114	35.04129	-117.77288
st28443	CA	Kern	150	27.6%	363.2	$7,000	$35	$192	24.8%	325.9	$3,700	$20	$114	35.06236	-117.77288
st28445	CA	Kern	150	27.6%	363.2	$7,000	$35	$192	24.8%	326.2	$3,700	$20	$114	35.1045	-117.77288
st28446	CA	Kern	150	27.6%	363.2	$7,000	$35	$192	24.8%	326.2	$3,700	$20	$114	35.12558	-117.77288
st28447	CA	Kern	150	27.6%	363.2	$7,000	$35	$192	24.8%	326.2	$3,700	$20	$114	35.14666	-117.77288
st28448	CA	Kern	150	27.6%	363.2	$7,000	$35	$192	24.8%	326.2	$3,700	$20	$114	35.16776	-117.77288
st28468	CA	Kern	150	27.6%	363.2	$7,000	$35	$192	24.8%	325.9	$3,700	$20	$114	35.08342	-117.74864
st28469	CA	Kern	150	27.6%	363.2	$7,000	$35	$192	24.8%	326.2	$3,700	$20	$114	35.1045	-117.74864
st28470	CA	Kern	150	27.6%	363.2	$7,000	$35	$192	24.8%	326.2	$3,700	$20	$114	35.12558	-117.74864
st28471	CA	Kern	150	27.6%	363.2	$7,000	$35	$192	24.8%	326.2	$3,700	$20	$114	35.14666	-117.74864
st28472	CA	Kern	150	27.6%	363.2	$7,000	$35	$192	24.8%	326.2	$3,700	$20	$114	35.16776	-117.74864
st28491	CA	Kern	150	27.6%	363.2	$7,000	$35	$192	24.8%	325.9	$3,700	$20	$114	35.06236	-117.7244
st28492	CA	Kern	150	27.6%	363.2	$7,000	$35	$192	24.8%	325.9	$3,700	$20	$114	35.08342	-117.7244
st28493	CA	Kern	150	27.6%	363.2	$7,000	$35	$192	24.8%	326.2	$3,700	$20	$114	35.1045	-117.7244
st28494	CA	Kern	150	27.6%	363.2	$7,000	$35	$192	24.8%	326.2	$3,700	$20	$114	35.12558	-117.7244
st28495	CA	Kern	150	27.6%	363.2	$7,000	$35	$192	24.8%	326.2	$3,700	$20	$114	35.14666	-117.7244
st28498	CA	Kern	150	27.7%	364.2	$7,000	$35	$191	24.9%	327.7	$3,700	$20	$113	35.20996	-117.7244
st28515	CA	Kern	150	27.6%	363.2	$7,000	$35	$192	24.8%	325.9	$3,700	$20	$114	35.06236	-117.70016
st28516	CA	Kern	150	27.6%	363.2	$7,000	$35	$192	24.8%	325.9	$3,700	$20	$114	35.08342	-117.70016
st28517	CA	Kern	150	27.6%	363.2	$7,000	$35	$192	24.8%	326.2	$3,700	$20	$114	35.1045	-117.70016
st28519	CA	Kern	150	27.6%	363.2	$7,000	$35	$192	24.8%	326.2	$3,700	$20	$114	35.14666	-117.70016
st28521	CA	Kern	150	27.6%	363.2	$7,000	$35	$192	24.8%	326.2	$3,700	$20	$114	35.18885	-117.70016
st28522	CA	Kern	150	27.7%	364.2	$7,000	$35	$191	24.9%	327.7	$3,700	$20	$113	35.20996	-117.70016
st28523	CA	Kern	150	27.7%	364.2	$7,000	$35	$191	24.9%	327.7	$3,700	$20	$113	35.23106	-117.70016
st28538	CA	Kern	150	27.4%	359.8	$7,000	$35	$193	24.6%	322.7	$3,700	$20	$115	35.04129	-117.67591
st28539	CA	Kern	150	27.4%	359.8	$7,000	$35	$193	24.6%	322.7	$3,700	$20	$115	35.06236	-117.67591
st28545	CA	Kern	150	27.8%	364.7	$7,000	$35	$191	25.0%	328.0	$3,700	$20	$113	35.18885	-117.67591
st28546	CA	Kern	150	27.8%	364.6	$7,000	$35	$191	25.0%	328.0	$3,700	$20	$113	35.20996	-117.67591
st28547	CA	Kern	150	27.8%	364.6	$7,000	$35	$191	25.0%	328.0	$3,700	$20	$113	35.23106	-117.67591
st28562	CA	Kern	150	27.4%	359.8	$7,000	$35	$193	24.6%	322.7	$3,700	$20	$115	35.04129	-117.65167
st28567	CA	Kern	150	27.8%	364.7	$7,001	$35	$191	25.0%	328.0	$3,701	$20	$113	35.14666	-117.65167
st28568	CA	Kern	150	27.8%	364.7	$7,000	$35	$191	25.0%	328.0	$3,700	$20	$113	35.16776	-117.65167
st28570	CA	Kern	150	27.8%	364.6	$7,000	$35	$191	25.0%	328.0	$3,700	$20	$113	35.20996	-117.65167
st28571	CA	Kern	150	27.8%	364.6	$7,000	$35	$191	25.0%	328.0	$3,700	$20	$113	35.23106	-117.65167
st28585	CA	Kern	150	27.4%	359.8	$7,000	$35	$193	24.6%	322.7	$3,700	$20	$115	35.02023	-117.62743
st33074	CA	Kern	150	25.4%	333.5	$7,000	$35	$209	22.3%	293.2	$3,700	$20	$126	35.7818	-120.05162
st33111	CA	Kern	150	25.5%	335.1	$7,000	$35	$208	22.4%	294.5	$3,700	$20	$126	35.59073	-120.00314
st35163	CA	Kern	150	27.4%	360.5	$7,000	$35	$193	24.8%	325.2	$3,700	$20	$114	35.69683	-117.84561
st35164	CA	Kern	150	27.4%	360.5	$7,000	$35	$193	24.8%	325.2	$3,700	$20	$114	35.71806	-117.84561
st35182	CA	Kern	150	27.5%	360.9	$7,000	$35	$193	24.7%	324.7	$3,700	$20	$114	35.61194	-117.82137
st35204	CA	Kern	150	27.5%	360.9	$7,000	$35	$193	24.7%	324.7	$3,700	$20	$114	35.59073	-117.79712
st35205	CA	Kern	150	27.5%	360.9	$7,000	$35	$193	24.7%	324.7	$3,700	$20	$114	35.61194	-117.79712
st35206	CA	Kern	150	27.5%	360.9	$7,000	$35	$193	24.7%	324.7	$3,700	$20	$114	35.63315	-117.79712
st35224	CA	Kern	150	27.4%	360.3	$7,000	$35	$193	24.7%	324.6	$3,700	$20	$114	35.52715	-117.77288
st35225	CA	Kern	150	27.4%	360.3	$7,001	$35	$193	24.7%	324.6	$3,701	$20	$114	35.54834	-117.77288
st35226	CA	Kern	150	27.4%	360.3	$7,000	$35	$193	24.7%	324.6	$3,700	$20	$114	35.56953	-117.77288
st35227	CA	Kern	150	27.5%	362.0	$7,001	$35	$192	24.8%	326.0	$3,701	$20	$114	35.59073	-117.77288
st35228	CA	Kern	150	27.5%	362.0	$7,000	$35	$192	24.8%	326.0	$3,700	$20	$114	35.61194	-117.77288
st35247	CA	Kern	150	27.4%	360.3	$7,000	$35	$193	24.7%	324.6	$3,700	$20	$114	35.52715	-117.74864
st35248	CA	Kern	150	27.4%	360.3	$7,000	$35	$193	24.7%	324.6	$3,700	$20	$114	35.54834	-117.74864
st35249	CA	Kern	150	27.4%	360.3	$7,001	$35	$193	24.7%	324.6	$3,701	$20	$114	35.56953	-117.74864
st35250	CA	Kern	150	27.5%	362.0	$7,000	$35	$192	24.8%	326.0	$3,700	$20	$114	35.59073	-117.74864
st35251	CA	Kern	150	27.5%	362.0	$7,000	$35	$192	24.8%	326.0	$3,700	$20	$114	35.61194	-117.74864
st35252	CA	Kern	150	27.5%	362.0	$7,000	$35	$192	24.8%	326.0	$3,700	$20	$114	35.63315	-117.74864
st35270	CA	Kern	150	27.4%	360.3	$7,000	$35	$193	24.7%	324.6	$3,700	$20	$114	35.52715	-117.7244
st35271	CA	Kern	150	27.4%	360.3	$7,000	$35	$193	24.7%	324.6	$3,700	$20	$114	35.54834	-117.7244
st35272	CA	Kern	150	27.4%	360.3	$7,000	$35	$193	24.7%	324.6	$3,700	$20	$114	35.56953	-117.7244

			Base Case One-Axis Tracking Crystalline Solar PV						Sensitivity Case 20 Degree Fixed Tilt Thin Film Solar PV							
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
st35273	CA	Kern	150	27.5%	362.0	$7,000	$35	$192	24.8%	326.0	$3,700	$20	$114	35.59073	-117.7244
st35274	CA	Kern	150	27.5%	362.0	$7,000	$35	$192	24.8%	326.0	$3,700	$20	$114	35.61194	-117.7244
st35275	CA	Kern	150	27.5%	362.0	$7,000	$35	$192	24.8%	326.0	$3,700	$20	$114	35.63315	-117.7244
st35294	CA	Kern	150	27.4%	360.3	$7,000	$35	$193	24.7%	324.6	$3,700	$20	$114	35.54834	-117.70016
st28213	CA	Kern	150	27.2%	357.3	$7,000	$35	$195	24.4%	320.6	$3,700	$20	$116	35.27329	-118.0153
st33076	CA	Kings	150	25.4%	333.8	$7,000	$35	$209	22.3%	293.6	$3,700	$20	$126	35.82433	-120.05162
st76077	CA	Lassen	150	24.8%	325.2	$7,000	$35	$214	22.1%	290.3	$3,700	$20	$128	39.7526	-120.07586
st76081	CA	Lassen	150	24.6%	323.7	$7,001	$35	$215	21.9%	288.3	$3,701	$20	$129	39.84237	-120.07586
st76099	CA	Lassen	150	24.8%	325.2	$7,000	$35	$214	22.1%	290.3	$3,700	$20	$128	39.7526	-120.05162
st76102	CA	Lassen	150	24.6%	323.7	$7,000	$35	$215	21.9%	288.3	$3,700	$20	$129	39.81991	-120.05162
st76124	CA	Lassen	150	24.6%	323.7	$7,001	$35	$215	21.9%	288.3	$3,701	$20	$129	39.81991	-120.02738
st79269	CA	Lassen	150	24.3%	318.8	$7,000	$35	$218	21.6%	283.9	$3,700	$20	$131	40.29301	-121.04553
st79270	CA	Lassen	150	24.3%	318.8	$7,000	$35	$218	21.6%	283.9	$3,700	$20	$131	40.31562	-121.04553
st79292	CA	Lassen	150	24.3%	318.8	$7,000	$35	$218	21.6%	283.9	$3,700	$20	$131	40.31562	-121.02129
st79338	CA	Lassen	150	24.2%	318.6	$7,001	$35	$219	21.6%	283.5	$3,701	$20	$131	40.36088	-120.97281
st79358	CA	Lassen	150	24.2%	318.6	$7,000	$35	$219	21.6%	283.5	$3,700	$20	$131	40.31562	-120.94857
st79754	CA	Lassen	150	24.1%	316.4	$7,000	$35	$220	21.4%	281.4	$3,700	$20	$132	40.31562	-120.51221
st79775	CA	Lassen	150	24.1%	316.4	$7,000	$35	$220	21.4%	281.4	$3,700	$20	$132	40.29301	-120.48797
st79797	CA	Lassen	150	24.2%	317.8	$7,000	$35	$219	21.5%	283.0	$3,700	$20	$131	40.29301	-120.46373
st79800	CA	Lassen	150	24.2%	317.8	$7,000	$35	$219	21.5%	283.0	$3,700	$20	$131	40.36088	-120.46373
st79802	CA	Lassen	150	24.3%	319.2	$7,000	$35	$218	21.7%	284.9	$3,700	$20	$130	40.40615	-120.46373
st79819	CA	Lassen	150	24.2%	317.8	$7,000	$35	$219	21.5%	283.0	$3,700	$20	$131	40.29301	-120.43949
st79820	CA	Lassen	150	24.2%	317.8	$7,000	$35	$219	21.5%	283.0	$3,700	$20	$131	40.31562	-120.43949
st79828	CA	Lassen	150	24.3%	319.3	$7,001	$35	$218	21.6%	284.3	$3,701	$20	$130	40.49679	-120.43949
st79872	CA	Lassen	150	24.3%	319.3	$7,000	$35	$218	21.6%	284.3	$3,700	$20	$130	40.49679	-120.391
st79938	CA	Lassen	150	24.2%	318.0	$7,000	$35	$219	21.5%	283.0	$3,700	$20	$131	40.49679	-120.31828
st79955	CA	Lassen	150	24.2%	317.9	$7,001	$35	$219	21.5%	283.0	$3,701	$20	$131	40.3835	-120.29404
st79959	CA	Lassen	150	24.2%	318.6	$7,000	$35	$219	21.5%	283.1	$3,700	$20	$131	40.47412	-120.29404
st79977	CA	Lassen	150	24.2%	318.6	$7,000	$35	$219	21.6%	284.3	$3,700	$20	$130	40.3835	-120.26979
st79980	CA	Lassen	150	24.3%	319.8	$7,000	$35	$218	21.7%	285.1	$3,700	$20	$130	40.45145	-120.26979
st79981	CA	Lassen	150	24.3%	319.8	$7,000	$35	$218	21.7%	285.1	$3,700	$20	$130	40.47412	-120.26979
st80002	CA	Lassen	150	24.3%	319.8	$7,001	$35	$218	21.7%	285.1	$3,701	$20	$130	40.45145	-120.24555
st80010	CA	Lassen	150	24.2%	317.6	$7,000	$35	$219	21.5%	282.0	$3,700	$20	$131	40.13495	-120.22131
st80011	CA	Lassen	150	24.2%	317.6	$7,000	$35	$219	21.5%	282.0	$3,700	$20	$131	40.15751	-120.22131
st80021	CA	Lassen	150	24.2%	318.6	$7,001	$35	$219	21.6%	284.3	$3,701	$20	$130	40.3835	-120.22131
st80023	CA	Lassen	150	24.3%	319.8	$7,000	$35	$218	21.7%	285.1	$3,700	$20	$130	40.4288	-120.22131
st80048	CA	Lassen	150	24.3%	319.2	$7,001	$35	$218	21.7%	284.5	$3,701	$20	$130	40.49679	-120.19707
st80070	CA	Lassen	150	24.3%	318.7	$7,001	$35	$218	21.6%	283.9	$3,701	$20	$131	40.49679	-120.17283
st80092	CA	Lassen	150	24.3%	318.7	$7,001	$35	$218	21.6%	283.9	$3,701	$20	$131	40.49679	-120.14858
st80115	CA	Lassen	150	24.4%	320.4	$7,000	$35	$217	21.7%	285.0	$3,700	$20	$130	40.02227	-120.1001
st80163	CA	Lassen	150	24.5%	321.4	$7,000	$35	$217	21.8%	286.2	$3,700	$20	$130	40.1124	-120.05162
st80168	CA	Lassen	150	24.5%	322.2	$7,000	$35	$216	21.9%	287.3	$3,700	$20	$129	40.22523	-120.05162
st80169	CA	Lassen	150	24.5%	322.2	$7,000	$35	$216	21.9%	287.3	$3,700	$20	$129	40.24782	-120.05162
st80185	CA	Lassen	150	24.5%	321.4	$7,001	$35	$217	21.8%	286.2	$3,701	$20	$130	40.1124	-120.02738
st80190	CA	Lassen	150	24.5%	322.2	$7,000	$35	$216	21.9%	287.3	$3,700	$20	$129	40.22523	-120.02738
st80206	CA	Lassen	150	24.5%	321.4	$7,000	$35	$217	21.8%	286.2	$3,700	$20	$129	40.08986	-120.00314
st83365	CA	Lassen	150	23.5%	309.3	$7,000	$35	$225	20.9%	274.7	$3,700	$20	$135	40.88339	-121.02129
st83499	CA	Lassen	150	23.7%	311.4	$7,001	$35	$224	21.1%	276.9	$3,701	$20	$134	40.92902	-120.87584
st83563	CA	Lassen	150	23.7%	310.8	$7,000	$35	$224	21.0%	276.2	$3,700	$20	$134	40.88339	-120.80312
st83585	CA	Lassen	150	23.7%	311.3	$7,000	$35	$224	21.1%	276.7	$3,700	$20	$134	40.88339	-120.77887
st83606	CA	Lassen	150	23.7%	311.3	$7,000	$35	$224	21.1%	276.7	$3,700	$20	$134	40.86058	-120.75463
st83627	CA	Lassen	150	23.7%	311.3	$7,001	$35	$224	21.1%	276.7	$3,701	$20	$134	40.83778	-120.73039
st83628	CA	Lassen	150	23.7%	311.3	$7,002	$35	$224	21.1%	276.7	$3,702	$20	$134	40.86058	-120.73039
st83648	CA	Lassen	150	23.7%	311.3	$7,001	$35	$224	21.1%	276.7	$3,701	$20	$134	40.815	-120.70615
st83649	CA	Lassen	150	23.7%	311.3	$7,002	$35	$224	21.1%	276.7	$3,702	$20	$134	40.83778	-120.70615
st83651	CA	Lassen	150	23.7%	311.3	$7,000	$35	$224	21.1%	276.7	$3,700	$20	$134	40.88339	-120.70615
st83669	CA	Lassen	150	23.8%	312.3	$7,001	$35	$223	21.1%	277.9	$3,701	$20	$133	40.79222	-120.68191
st83670	CA	Lassen	150	23.8%	312.3	$7,001	$35	$223	21.1%	277.9	$3,701	$20	$133	40.815	-120.68191
st83673	CA	Lassen	150	23.8%	312.3	$7,000	$35	$223	21.1%	277.9	$3,700	$20	$133	40.88339	-120.68191
st83674	CA	Lassen	150	23.6%	310.0	$7,000	$35	$225	21.0%	275.4	$3,700	$20	$135	40.9062	-120.68191
st83694	CA	Lassen	150	23.8%	312.3	$7,000	$35	$223	21.1%	277.9	$3,700	$20	$133	40.86058	-120.65767
st83702	CA	Lassen	150	24.1%	317.1	$7,000	$35	$220	21.5%	282.3	$3,700	$20	$131	40.54215	-120.63342
st83715	CA	Lassen	150	23.8%	312.3	$7,000	$35	$223	21.1%	277.9	$3,700	$20	$133	40.83778	-120.63342
st83737	CA	Lassen	150	23.8%	312.3	$7,000	$35	$223	21.1%	277.9	$3,700	$20	$133	40.83778	-120.60918
st83738	CA	Lassen	150	23.8%	312.3	$7,000	$35	$223	21.1%	277.9	$3,700	$20	$133	40.86058	-120.60918
st83760	CA	Lassen	150	23.9%	313.8	$7,000	$35	$222	21.2%	279.0	$3,700	$20	$133	40.86058	-120.58494
st83778	CA	Lassen	150	24.2%	317.6	$7,000	$35	$219	21.5%	283.1	$3,700	$20	$131	40.76945	-120.5607
st83780	CA	Lassen	150	23.9%	313.8	$7,000	$35	$222	21.2%	279.0	$3,700	$20	$133	40.815	-120.5607
st83782	CA	Lassen	150	23.9%	313.8	$7,000	$35	$222	21.2%	279.0	$3,700	$20	$133	40.86058	-120.5607
st83819	CA	Lassen	150	24.2%	317.6	$7,000	$35	$219	21.5%	283.1	$3,700	$20	$131	40.70118	-120.51221
st83826	CA	Lassen	150	23.9%	313.8	$7,000	$35	$222	21.2%	279.0	$3,700	$20	$133	40.86058	-120.51221
st83841	CA	Lassen	150	24.2%	317.6	$7,000	$35	$219	21.5%	283.1	$3,700	$20	$131	40.70118	-120.48797
st83848	CA	Lassen	150	23.9%	313.8	$7,000	$35	$222	21.2%	279.0	$3,700	$20	$133	40.86058	-120.48797
st83860	CA	Lassen	150	24.2%	318.1	$7,000	$35	$219	21.6%	283.4	$3,700	$20	$131	40.63298	-120.46373
st83871	CA	Lassen	150	23.7%	311.8	$7,000	$35	$223	21.1%	276.8	$3,700	$20	$134	40.88339	-120.46373
st83879	CA	Lassen	150	24.3%	319.3	$7,000	$35	$218	21.6%	284.3	$3,700	$20	$130	40.56485	-120.43949
st83883	CA	Lassen	150	24.2%	318.1	$7,000	$35	$219	21.6%	283.4	$3,700	$20	$131	40.65571	-120.43949
st83891	CA	Lassen	150	23.7%	311.8	$7,000	$35	$223	21.1%	276.8	$3,700	$20	$134	40.83778	-120.43949
st83892	CA	Lassen	150	23.7%	311.8	$7,000	$35	$223	21.1%	276.8	$3,700	$20	$134	40.86058	-120.43949
st83893	CA	Lassen	150	23.7%	311.8	$7,000	$35	$223	21.1%	276.8	$3,700	$20	$134	40.88339	-120.43949
st83900	CA	Lassen	150	24.3%	319.3	$7,002	$35	$218	21.6%	284.3	$3,702	$20	$130	40.54215	-120.41525
st83901	CA	Lassen	150	24.3%	319.3	$7,001	$35	$218	21.6%	284.3	$3,701	$20	$130	40.56485	-120.41525
st83902	CA	Lassen	150	24.3%	319.3	$7,001	$35	$218	21.6%	284.3	$3,701	$20	$130	40.58755	-120.41525
st83913	CA	Lassen	150	23.7%	311.8	$7,000	$35	$223	21.1%	276.8	$3,700	$20	$134	40.83778	-120.41525
st83915	CA	Lassen	150	23.7%	311.8	$7,001	$35	$223	21.1%	276.8	$3,701	$20	$134	40.88339	-120.41525
st83921	CA	Lassen	150	24.3%	319.3	$7,001	$35	$218	21.6%	284.3	$3,701	$20	$130	40.51946	-120.391
st83922	CA	Lassen	150	24.3%	319.3	$7,002	$35	$218	21.6%	284.3	$3,702	$20	$130	40.54215	-120.391
st83936	CA	Lassen	150	23.7%	311.8	$7,001	$35	$223	21.1%	276.8	$3,701	$20	$134	40.86058	-120.391
st83943	CA	Lassen	150	24.2%	318.0	$7,001	$35	$219	21.5%	283.0	$3,701	$20	$131	40.51946	-120.36676
st83944	CA	Lassen	150	24.2%	318.0	$7,001	$35	$219	21.5%	283.0	$3,701	$20	$131	40.54215	-120.36676
st83951	CA	Lassen	150	24.2%	318.0	$7,001	$35	$219	21.6%	283.7	$3,701	$20	$131	40.70118	-120.36676
st83952	CA	Lassen	150	24.2%	318.0	$7,000	$35	$219	21.6%	283.7	$3,700	$20	$131	40.72392	-120.36676
st83954	CA	Lassen	150	24.2%	318.0	$7,000	$35	$219	21.6%	283.7	$3,700	$20	$131	40.76945	-120.36676

				Base Case One-Axis Tracking Crystalline Solar PV					**Sensitivity Case** 20 Degree Fixed Tilt Thin Film Solar PV						
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
st83957	CA	Lassen	150	23.9%	314.1	$7,000	$35	$222	21.3%	279.9	$3,700	$20	$132	40.83778	-120.36676
st83958	CA	Lassen	150	23.9%	314.1	$7,000	$35	$222	21.3%	279.9	$3,700	$20	$132	40.86058	-120.36676
st83973	CA	Lassen	150	24.2%	318.0	$7,002	$35	$219	21.6%	283.7	$3,702	$20	$131	40.70118	-120.34252
st83974	CA	Lassen	150	24.2%	318.0	$7,000	$35	$219	21.6%	283.7	$3,700	$20	$131	40.72392	-120.34252
st83978	CA	Lassen	150	23.9%	314.1	$7,001	$35	$222	21.3%	279.9	$3,701	$20	$132	40.815	-120.34252
st83979	CA	Lassen	150	23.9%	314.1	$7,002	$35	$222	21.3%	279.9	$3,702	$20	$132	40.83778	-120.34252
st83994	CA	Lassen	150	24.2%	318.4	$7,001	$35	$219	21.6%	284.0	$3,701	$20	$131	40.67844	-120.31828
st83995	CA	Lassen	150	24.2%	318.0	$7,001	$35	$219	21.6%	283.7	$3,701	$20	$131	40.70118	-120.31828
st83998	CA	Lassen	150	24.2%	318.0	$7,000	$35	$219	21.6%	283.7	$3,700	$20	$131	40.76945	-120.31828
st84000	CA	Lassen	150	23.9%	314.1	$7,001	$35	$222	21.3%	279.9	$3,701	$20	$132	40.815	-120.31828
st84001	CA	Lassen	150	23.9%	314.1	$7,002	$35	$222	21.3%	279.9	$3,702	$20	$132	40.83778	-120.31828
st84002	CA	Lassen	150	23.9%	314.1	$7,001	$35	$222	21.3%	279.9	$3,701	$20	$132	40.86058	-120.31828
st84003	CA	Lassen	150	23.9%	314.1	$7,000	$35	$222	21.3%	279.9	$3,700	$20	$132	40.88339	-120.31828
st84004	CA	Lassen	150	23.8%	313.0	$7,000	$35	$222	21.2%	278.3	$3,700	$20	$133	40.9062	-120.31828
st84010	CA	Lassen	150	24.2%	318.0	$7,002	$35	$219	21.5%	283.0	$3,702	$20	$131	40.54215	-120.29404
st84016	CA	Lassen	150	24.2%	318.4	$7,000	$35	$219	21.6%	284.0	$3,700	$20	$131	40.67844	-120.29404
st84023	CA	Lassen	150	23.9%	314.1	$7,000	$35	$222	21.3%	279.9	$3,700	$20	$132	40.83778	-120.29404
st84024	CA	Lassen	150	23.9%	314.1	$7,000	$35	$222	21.3%	279.9	$3,700	$20	$132	40.86058	-120.29404
st84025	CA	Lassen	150	23.9%	314.1	$7,000	$35	$222	21.3%	279.9	$3,700	$20	$132	40.88339	-120.29404
st84026	CA	Lassen	150	23.8%	313.0	$7,000	$35	$222	21.2%	278.3	$3,700	$20	$133	40.9062	-120.29404
st84033	CA	Lassen	150	24.3%	319.2	$7,000	$35	$218	21.7%	284.5	$3,700	$20	$130	40.56485	-120.26979
st84046	CA	Lassen	150	24.0%	315.2	$7,000	$35	$221	21.4%	280.9	$3,700	$20	$132	40.86058	-120.26979
st84055	CA	Lassen	150	24.3%	319.2	$7,000	$35	$218	21.7%	284.5	$3,700	$20	$130	40.56485	-120.24555
st84065	CA	Lassen	150	24.0%	315.2	$7,000	$35	$221	21.4%	280.9	$3,700	$20	$132	40.79222	-120.24555
st84067	CA	Lassen	150	24.0%	315.2	$7,001	$35	$221	21.4%	280.9	$3,701	$20	$132	40.83778	-120.24555
st84068	CA	Lassen	150	24.0%	315.2	$7,000	$35	$221	21.4%	280.9	$3,700	$20	$132	40.86058	-120.24555
st84070	CA	Lassen	150	23.8%	313.0	$7,000	$35	$222	21.2%	278.0	$3,700	$20	$133	40.9062	-120.24555
st84072	CA	Lassen	150	23.8%	313.0	$7,001	$35	$222	21.2%	278.0	$3,701	$20	$133	40.95185	-120.24555
st84091	CA	Lassen	150	24.0%	315.2	$7,000	$35	$221	21.4%	280.9	$3,700	$20	$132	40.88339	-120.22131
st84092	CA	Lassen	150	23.8%	313.0	$7,000	$35	$222	21.2%	278.0	$3,700	$20	$133	40.9062	-120.22131
st84110	CA	Lassen	150	24.0%	315.2	$7,001	$35	$221	21.4%	280.9	$3,701	$20	$132	40.815	-120.19707
st84157	CA	Lassen	150	24.0%	315.3	$7,000	$35	$221	21.4%	281.4	$3,700	$20	$132	40.88339	-120.14858
st84176	CA	Lassen	150	24.0%	315.3	$7,000	$35	$221	21.4%	281.4	$3,700	$20	$132	40.815	-120.12434
st84240	CA	Lassen	150	24.3%	318.7	$7,000	$35	$218	21.6%	284.1	$3,700	$20	$130	40.76945	-120.05162
st84262	CA	Lassen	150	24.3%	318.7	$7,001	$35	$218	21.6%	284.1	$3,701	$20	$130	40.76945	-120.02738
st87134	CA	Lassen	150	23.8%	312.4	$7,000	$35	$223	21.2%	278.5	$3,700	$20	$133	41.04323	-121.33644
st87311	CA	Lassen	150	23.7%	311.3	$7,000	$35	$224	21.1%	277.2	$3,700	$20	$134	41.0661	-121.1425
st87312	CA	Lassen	150	23.6%	309.6	$7,000	$35	$225	21.0%	275.9	$3,700	$20	$134	41.08897	-121.1425
st87333	CA	Lassen	150	23.7%	311.3	$7,001	$35	$224	21.1%	277.2	$3,701	$20	$134	41.0661	-121.11826
st87354	CA	Lassen	150	23.7%	311.3	$7,000	$35	$224	21.1%	277.2	$3,700	$20	$134	41.04323	-121.09402
st87355	CA	Lassen	150	23.7%	311.3	$7,000	$35	$224	21.1%	277.2	$3,700	$20	$134	41.0661	-121.09402
st87358	CA	Lassen	150	23.6%	309.6	$7,000	$35	$225	21.0%	275.9	$3,700	$20	$134	41.13475	-121.09402
st87491	CA	Lassen	150	23.8%	312.7	$7,000	$35	$223	21.2%	279.2	$3,700	$20	$133	41.15765	-120.94857
st87837	CA	Lassen	150	23.6%	310.0	$7,000	$35	$225	21.0%	275.6	$3,700	$20	$134	41.02037	-120.5607
st87860	CA	Lassen	150	23.6%	310.0	$7,000	$35	$225	21.0%	275.6	$3,700	$20	$134	41.04323	-120.53646
st87881	CA	Lassen	150	23.6%	310.0	$7,000	$35	$225	21.0%	275.6	$3,700	$20	$134	41.02037	-120.51221
st87882	CA	Lassen	150	23.6%	310.0	$7,001	$35	$225	21.0%	275.6	$3,701	$20	$135	41.04323	-120.51221
st87903	CA	Lassen	150	23.6%	310.0	$7,000	$35	$225	21.0%	275.6	$3,700	$20	$134	41.02037	-120.48797
st87904	CA	Lassen	150	23.6%	310.0	$7,000	$35	$225	21.0%	275.6	$3,700	$20	$134	41.04323	-120.48797
st87926	CA	Lassen	150	23.6%	310.5	$7,000	$35	$224	21.0%	275.9	$3,700	$20	$134	41.04323	-120.46373
st88125	CA	Lassen	150	23.8%	312.1	$7,000	$35	$223	21.1%	277.1	$3,700	$20	$134	41.0661	-120.24555
st88327	CA	Lassen	150	23.7%	310.9	$7,000	$35	$224	21.0%	275.7	$3,700	$20	$134	41.15765	-120.02738
st88328	CA	Lassen	150	23.7%	310.9	$7,000	$35	$224	21.0%	275.7	$3,700	$20	$134	41.18056	-120.02738
st88350	CA	Lassen	150	23.7%	310.9	$7,001	$35	$224	21.0%	275.7	$3,701	$20	$134	41.18056	-120.00314
st20606	CA	Los Angeles	150	26.2%	344.2	$7,002	$35	$202	23.2%	305.0	$3,702	$20	$122	34.78895	-118.69407
st20630	CA	Los Angeles	150	26.2%	343.6	$7,001	$35	$203	23.1%	303.7	$3,701	$20	$122	34.78895	-118.66983
st20654	CA	Los Angeles	150	26.2%	343.6	$7,000	$35	$203	23.1%	303.7	$3,700	$20	$122	34.78895	-118.64559
st20750	CA	Los Angeles	150	26.1%	343.5	$7,000	$35	$203	23.2%	304.3	$3,700	$20	$122	34.78895	-118.54862
st20773	CA	Los Angeles	150	26.1%	343.5	$7,000	$35	$203	23.2%	304.3	$3,700	$20	$122	34.76795	-118.52438
st20774	CA	Los Angeles	150	26.1%	343.5	$7,000	$35	$203	23.2%	304.3	$3,700	$20	$122	34.78895	-118.52438
st20798	CA	Los Angeles	150	26.1%	343.5	$7,000	$35	$203	23.2%	304.3	$3,700	$20	$122	34.78895	-118.50014
st20844	CA	Los Angeles	150	26.3%	346.0	$7,000	$35	$201	23.4%	307.2	$3,700	$20	$121	34.74696	-118.45165
st20845	CA	Los Angeles	150	26.3%	346.0	$7,000	$35	$201	23.4%	307.2	$3,700	$20	$121	34.76795	-118.45165
st20868	CA	Los Angeles	150	26.3%	346.0	$7,000	$35	$201	23.4%	307.2	$3,700	$20	$121	34.74696	-118.42741
st20869	CA	Los Angeles	150	26.3%	346.0	$7,000	$35	$201	23.4%	307.2	$3,700	$20	$121	34.76795	-118.42741
st20893	CA	Los Angeles	150	26.3%	346.0	$7,000	$35	$201	23.4%	307.2	$3,700	$20	$121	34.76795	-118.40317
st20917	CA	Los Angeles	150	26.8%	352.6	$7,000	$35	$197	23.9%	314.6	$3,700	$20	$118	34.76795	-118.37893
st20918	CA	Los Angeles	150	26.8%	352.6	$7,000	$35	$197	23.9%	314.6	$3,700	$20	$118	34.78895	-118.37893
st20938	CA	Los Angeles	150	26.8%	352.6	$7,000	$35	$197	23.9%	314.6	$3,700	$20	$118	34.70501	-118.35469
st20941	CA	Los Angeles	150	26.8%	352.6	$7,000	$35	$197	23.9%	314.6	$3,700	$20	$118	34.76795	-118.35469
st20942	CA	Los Angeles	150	26.8%	352.6	$7,000	$35	$197	23.9%	314.6	$3,700	$20	$118	34.78895	-118.35469
st20963	CA	Los Angeles	150	26.8%	352.6	$7,000	$35	$197	23.9%	314.6	$3,700	$20	$118	34.72598	-118.33044
st20965	CA	Los Angeles	150	26.8%	352.6	$7,000	$35	$197	23.9%	314.6	$3,700	$20	$118	34.76795	-118.33044
st20966	CA	Los Angeles	150	26.8%	352.6	$7,000	$35	$197	23.9%	314.6	$3,700	$20	$118	34.78895	-118.33044
st20986	CA	Los Angeles	150	26.8%	352.6	$7,000	$35	$197	23.9%	314.6	$3,700	$20	$118	34.70501	-118.3062
st20989	CA	Los Angeles	150	26.8%	352.6	$7,001	$35	$197	23.9%	314.6	$3,701	$20	$118	34.76795	-118.3062
st21010	CA	Los Angeles	150	27.1%	356.1	$7,000	$35	$195	24.2%	318.3	$3,700	$20	$116	34.70501	-118.28196
st21013	CA	Los Angeles	150	27.1%	356.1	$7,000	$35	$195	24.2%	318.3	$3,700	$20	$116	34.76795	-118.28196
st21036	CA	Los Angeles	150	27.1%	356.1	$7,000	$35	$195	24.2%	318.3	$3,700	$20	$116	34.74696	-118.25772
st21086	CA	Los Angeles	150	27.1%	356.1	$7,000	$35	$195	24.2%	318.3	$3,700	$20	$116	34.78895	-118.20924
stm21182	CA	Los Angeles	150	27.2%	356.8	$7,001	$35	$195	24.3%	319.5	$3,701	$20	$116	34.78895	-118.11227
st21203	CA	Los Angeles	150	27.2%	356.8	$7,001	$35	$195	24.3%	319.5	$3,701	$20	$116	34.72598	-118.08803
st21228	CA	Los Angeles	150	27.5%	361.3	$7,000	$35	$193	24.6%	323.6	$3,700	$20	$115	34.74696	-118.06379
st21247	CA	Los Angeles	150	27.3%	358.5	$7,000	$35	$194	24.4%	321.0	$3,700	$20	$115	34.6421	-118.03954
st21249	CA	Los Angeles	150	27.3%	358.5	$7,000	$35	$194	24.4%	321.0	$3,700	$20	$115	34.68404	-118.03954
st21269	CA	Los Angeles	150	27.3%	358.5	$7,000	$35	$194	24.4%	321.0	$3,700	$20	$115	34.60019	-118.0153
st21270	CA	Los Angeles	150	27.3%	358.5	$7,001	$35	$194	24.4%	321.0	$3,701	$20	$115	34.62115	-118.0153
st21271	CA	Los Angeles	150	27.3%	358.5	$7,000	$35	$194	24.4%	321.0	$3,700	$20	$115	34.6421	-118.0153
st21291	CA	Los Angeles	150	27.3%	359.1	$7,000	$35	$194	24.4%	321.2	$3,700	$20	$115	34.55831	-117.99106
st21292	CA	Los Angeles	150	27.3%	359.1	$7,000	$35	$194	24.4%	321.2	$3,700	$20	$115	34.57925	-117.99106
st21293	CA	Los Angeles	150	27.3%	358.5	$7,001	$35	$194	24.4%	321.0	$3,701	$20	$115	34.60019	-117.99106
st21294	CA	Los Angeles	150	27.3%	358.5	$7,000	$35	$194	24.4%	321.0	$3,700	$20	$115	34.62115	-117.99106
st21295	CA	Los Angeles	150	27.3%	358.5	$7,000	$35	$194	24.4%	321.0	$3,700	$20	$115	34.6421	-117.99106

				Base Case One-Axis Tracking Crystalline Solar PV					**Sensitivity Case** 20 Degree Fixed Tilt Thin Film Solar PV						
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
st21297	CA	Los Angeles	150	27.3%	358.5	$7,000	$35	$194	24.4%	321.0	$3,700	$20	$115	34.68404	-117.99106
st21299	CA	Los Angeles	150	27.5%	361.3	$7,000	$35	$193	24.6%	323.6	$3,700	$20	$115	34.72598	-117.99106
st21317	CA	Los Angeles	150	27.5%	361.9	$7,000	$35	$192	24.7%	324.6	$3,700	$20	$114	34.60019	-117.96682
st21318	CA	Los Angeles	150	27.5%	361.9	$7,000	$35	$192	24.7%	324.6	$3,700	$20	$114	34.62115	-117.96682
st21320	CA	Los Angeles	150	27.5%	361.9	$7,000	$35	$192	24.7%	324.6	$3,700	$20	$114	34.66306	-117.96682
st21323	CA	Los Angeles	150	27.5%	361.3	$7,000	$35	$193	24.7%	324.1	$3,700	$20	$114	34.72598	-117.96682
st21341	CA	Los Angeles	150	27.5%	361.9	$7,000	$35	$192	24.7%	324.6	$3,700	$20	$114	34.60019	-117.94258
st21344	CA	Los Angeles	150	27.5%	361.9	$7,000	$35	$192	24.7%	324.6	$3,700	$20	$114	34.66306	-117.94258
st21347	CA	Los Angeles	150	27.5%	361.3	$7,000	$35	$193	24.7%	324.1	$3,700	$20	$114	34.72598	-117.94258
st21362	CA	Los Angeles	150	27.4%	359.5	$7,000	$35	$194	24.5%	322.2	$3,700	$20	$115	34.53738	-117.91833
st21365	CA	Los Angeles	150	27.5%	361.9	$7,000	$35	$192	24.7%	324.6	$3,700	$20	$114	34.60019	-117.91833
st21367	CA	Los Angeles	150	27.5%	361.9	$7,000	$35	$192	24.7%	324.6	$3,700	$20	$114	34.6421	-117.91833
st21368	CA	Los Angeles	150	27.5%	361.9	$7,000	$35	$192	24.7%	324.6	$3,700	$20	$114	34.66306	-117.91833
st21370	CA	Los Angeles	150	27.5%	361.3	$7,000	$35	$193	24.7%	324.1	$3,700	$20	$114	34.70501	-117.91833
st21386	CA	Los Angeles	150	27.4%	359.5	$7,000	$35	$194	24.5%	322.2	$3,700	$20	$115	34.53738	-117.89409
st21387	CA	Los Angeles	150	27.4%	359.5	$7,000	$35	$194	24.5%	322.2	$3,700	$20	$115	34.55831	-117.89409
st21389	CA	Los Angeles	150	27.5%	361.9	$7,000	$35	$192	24.7%	324.6	$3,700	$20	$114	34.60019	-117.89409
st21392	CA	Los Angeles	150	27.5%	361.9	$7,001	$35	$192	24.7%	324.6	$3,701	$20	$114	34.66306	-117.89409
st21394	CA	Los Angeles	150	27.5%	361.3	$7,000	$35	$193	24.7%	324.1	$3,700	$20	$114	34.70501	-117.89409
st21396	CA	Los Angeles	150	27.5%	361.3	$7,000	$35	$193	24.7%	324.1	$3,700	$20	$114	34.74696	-117.89409
st21410	CA	Los Angeles	150	27.6%	362.3	$7,001	$35	$192	24.7%	324.8	$3,701	$20	$114	34.53738	-117.86985
st21411	CA	Los Angeles	150	27.6%	362.3	$7,000	$35	$192	24.7%	324.8	$3,700	$20	$114	34.55831	-117.86985
st21418	CA	Los Angeles	150	27.7%	363.3	$7,000	$35	$192	24.8%	325.7	$3,700	$20	$114	34.70501	-117.86985
st21434	CA	Los Angeles	150	27.6%	362.3	$7,000	$35	$192	24.7%	324.8	$3,700	$20	$114	34.53738	-117.84561
st21435	CA	Los Angeles	150	27.6%	362.3	$7,000	$35	$192	24.7%	324.8	$3,700	$20	$114	34.55831	-117.84561
st21458	CA	Los Angeles	150	27.6%	362.3	$7,000	$35	$192	24.7%	324.8	$3,700	$20	$114	34.53738	-117.82137
st21459	CA	Los Angeles	150	27.6%	362.3	$7,000	$35	$192	24.7%	324.8	$3,700	$20	$114	34.55831	-117.82137
st21460	CA	Los Angeles	150	27.6%	362.3	$7,000	$35	$192	24.7%	324.8	$3,700	$20	$114	34.57925	-117.82137
st21482	CA	Los Angeles	150	27.6%	362.3	$7,000	$35	$192	24.7%	324.8	$3,700	$20	$114	34.53738	-117.79712
st21483	CA	Los Angeles	150	27.6%	362.3	$7,000	$35	$192	24.7%	324.8	$3,700	$20	$114	34.55831	-117.79712
st21484	CA	Los Angeles	150	27.6%	362.3	$7,000	$35	$192	24.7%	324.8	$3,700	$20	$114	34.57925	-117.79712
st21485	CA	Los Angeles	150	27.6%	362.8	$7,000	$35	$192	24.8%	325.2	$3,700	$20	$114	34.60019	-117.79712
st21487	CA	Los Angeles	150	27.6%	362.8	$7,000	$35	$192	24.8%	325.2	$3,700	$20	$114	34.6421	-117.79712
st21506	CA	Los Angeles	150	27.6%	362.7	$7,000	$35	$192	24.7%	324.6	$3,700	$20	$114	34.53738	-117.77288
st21507	CA	Los Angeles	150	27.6%	362.7	$7,000	$35	$192	24.7%	324.6	$3,700	$20	$114	34.55831	-117.77288
st21508	CA	Los Angeles	150	27.6%	362.7	$7,000	$35	$192	24.7%	324.6	$3,700	$20	$114	34.57925	-117.77288
st21509	CA	Los Angeles	150	27.6%	362.9	$7,000	$35	$192	24.7%	324.9	$3,700	$20	$114	34.60019	-117.77288
st21510	CA	Los Angeles	150	27.6%	362.9	$7,000	$35	$192	24.7%	324.9	$3,700	$20	$114	34.62115	-117.77288
st21511	CA	Los Angeles	150	27.6%	362.9	$7,000	$35	$192	24.7%	324.9	$3,700	$20	$114	34.6421	-117.77288
st21530	CA	Los Angeles	150	27.6%	362.7	$7,000	$35	$192	24.7%	324.6	$3,700	$20	$114	34.53738	-117.74864
st21531	CA	Los Angeles	150	27.6%	362.7	$7,000	$35	$192	24.7%	324.6	$3,700	$20	$114	34.55831	-117.74864
st21532	CA	Los Angeles	150	27.6%	362.7	$7,000	$35	$192	24.7%	324.6	$3,700	$20	$114	34.57925	-117.74864
st21533	CA	Los Angeles	150	27.6%	362.9	$7,000	$35	$192	24.7%	324.9	$3,700	$20	$114	34.60019	-117.74864
st21534	CA	Los Angeles	150	27.6%	362.9	$7,000	$35	$192	24.7%	324.9	$3,700	$20	$114	34.62115	-117.74864
st21536	CA	Los Angeles	150	27.6%	362.9	$7,000	$35	$192	24.7%	324.9	$3,700	$20	$114	34.66306	-117.74864
st21538	CA	Los Angeles	150	27.7%	364.2	$7,000	$35	$191	24.8%	326.2	$3,700	$20	$114	34.70501	-117.74864
st21554	CA	Los Angeles	150	27.6%	362.7	$7,000	$35	$192	24.7%	324.6	$3,700	$20	$114	34.53738	-117.7244
st21556	CA	Los Angeles	150	27.6%	362.7	$7,000	$35	$192	24.7%	324.6	$3,700	$20	$114	34.57925	-117.7244
st21557	CA	Los Angeles	150	27.6%	362.9	$7,000	$35	$192	24.7%	324.9	$3,700	$20	$114	34.60019	-117.7244
st21558	CA	Los Angeles	150	27.6%	362.9	$7,000	$35	$192	24.7%	324.9	$3,700	$20	$114	34.62115	-117.7244
st21559	CA	Los Angeles	150	27.6%	362.9	$7,000	$35	$192	24.7%	324.9	$3,700	$20	$114	34.6421	-117.7244
st21560	CA	Los Angeles	150	27.6%	362.9	$7,000	$35	$192	24.7%	324.9	$3,700	$20	$114	34.66306	-117.7244
st21562	CA	Los Angeles	150	27.7%	364.2	$7,000	$35	$191	24.8%	326.2	$3,700	$20	$114	34.70501	-117.7244
st21579	CA	Los Angeles	150	27.6%	362.7	$7,000	$35	$192	24.7%	324.6	$3,700	$20	$114	34.55831	-117.70016
st21581	CA	Los Angeles	150	27.6%	362.9	$7,000	$35	$192	24.7%	324.9	$3,700	$20	$114	34.60019	-117.70016
st21583	CA	Los Angeles	150	27.6%	362.9	$7,000	$35	$192	24.7%	324.9	$3,700	$20	$114	34.6421	-117.70016
st21584	CA	Los Angeles	150	27.6%	362.9	$7,000	$35	$192	24.7%	324.9	$3,700	$20	$114	34.66306	-117.70016
st21585	CA	Los Angeles	150	27.6%	362.9	$7,000	$35	$192	24.7%	324.9	$3,700	$20	$114	34.68404	-117.70016
st21586	CA	Los Angeles	150	27.7%	364.2	$7,000	$35	$191	24.8%	326.2	$3,700	$20	$114	34.70501	-117.70016
st21602	CA	Los Angeles	150	27.5%	361.8	$7,000	$35	$192	24.6%	323.4	$3,700	$20	$115	34.53738	-117.67591
st21605	CA	Los Angeles	150	27.6%	362.4	$7,000	$35	$192	24.7%	324.1	$3,700	$20	$114	34.60019	-117.67591
st21606	CA	Los Angeles	150	27.6%	362.4	$7,001	$35	$192	24.7%	324.1	$3,701	$20	$114	34.62115	-117.67591
st21609	CA	Los Angeles	150	27.6%	362.4	$7,000	$35	$192	24.7%	324.1	$3,700	$20	$114	34.68404	-117.67591
st21625	CA	Los Angeles	150	27.5%	361.8	$7,001	$35	$192	24.6%	323.4	$3,701	$20	$115	34.51645	-117.65167
st21626	CA	Los Angeles	150	27.5%	361.8	$7,000	$35	$192	24.6%	323.4	$3,700	$20	$115	34.53738	-117.65167
st21627	CA	Los Angeles	150	27.5%	361.8	$7,000	$35	$192	24.6%	323.4	$3,700	$20	$115	34.55831	-117.65167
st87252	CA	Modoc	150	23.5%	309.2	$7,000	$35	$225	20.9%	274.7	$3,700	$20	$135	41.22639	-121.21523
st87273	CA	Modoc	150	23.5%	309.2	$7,000	$35	$225	20.9%	274.7	$3,700	$20	$135	41.20347	-121.19098
st87295	CA	Modoc	150	23.6%	310.2	$7,000	$35	$224	21.0%	276.4	$3,700	$20	$134	41.20347	-121.16674
st87317	CA	Modoc	150	23.6%	310.2	$7,000	$35	$224	21.0%	276.4	$3,700	$20	$134	41.20347	-121.1425
st87342	CA	Modoc	150	23.6%	310.2	$7,000	$35	$224	21.0%	276.4	$3,700	$20	$134	41.27226	-121.11826
st87384	CA	Modoc	150	23.8%	313.0	$7,001	$35	$222	21.3%	279.5	$3,701	$20	$133	41.22639	-121.06978
st87699	CA	Modoc	150	23.5%	308.5	$7,000	$35	$226	20.9%	274.7	$3,700	$20	$135	41.38707	-120.73039
st87745	CA	Modoc	150	23.5%	308.7	$7,000	$35	$225	21.0%	275.4	$3,700	$20	$135	41.43306	-120.68191
st87746	CA	Modoc	150	23.5%	308.7	$7,000	$35	$225	21.0%	275.4	$3,700	$20	$135	41.45606	-120.68191
st87767	CA	Modoc	150	23.5%	308.7	$7,000	$35	$225	21.0%	275.4	$3,700	$20	$135	41.43306	-120.65767
st87768	CA	Modoc	150	23.5%	308.7	$7,000	$35	$225	21.0%	275.4	$3,700	$20	$135	41.45606	-120.65767
st87851	CA	Modoc	150	23.5%	309.1	$7,000	$35	$225	21.0%	275.6	$3,700	$20	$134	41.34112	-120.5607
st87852	CA	Modoc	150	23.5%	309.1	$7,000	$35	$225	21.0%	275.6	$3,700	$20	$134	41.36409	-120.5607
st87874	CA	Modoc	150	23.5%	309.1	$7,000	$35	$225	21.0%	275.6	$3,700	$20	$134	41.36409	-120.53646
st87889	CA	Modoc	150	23.5%	308.8	$7,000	$35	$225	21.0%	275.3	$3,700	$20	$135	41.20347	-120.51221
st87896	CA	Modoc	150	23.5%	309.1	$7,000	$35	$225	21.0%	275.6	$3,700	$20	$134	41.36409	-120.51221
st87897	CA	Modoc	150	23.5%	309.1	$7,000	$35	$225	21.0%	275.6	$3,700	$20	$134	41.38707	-120.51221
st87918	CA	Modoc	150	23.5%	309.1	$7,001	$35	$225	21.0%	275.6	$3,701	$20	$135	41.36409	-120.48797
st87934	CA	Modoc	150	23.6%	310.6	$7,000	$35	$224	21.1%	277.5	$3,700	$20	$134	41.22639	-120.46373
st87936	CA	Modoc	150	23.6%	310.6	$7,001	$35	$224	21.1%	277.5	$3,701	$20	$134	41.27226	-120.46373
st87988	CA	Modoc	150	23.5%	309.0	$7,000	$35	$225	21.0%	276.2	$3,700	$20	$134	41.45606	-120.41525
st88007	CA	Modoc	150	23.7%	310.8	$7,000	$35	$224	21.1%	277.8	$3,700	$20	$133	41.38707	-120.391
st88359	CA	Modoc	150	23.4%	307.4	$7,001	$35	$226	20.8%	273.6	$3,701	$20	$135	41.38707	-120.00314
st53387	CA	Mono	150	26.8%	352.5	$7,001	$35	$198	24.3%	319.2	$3,701	$20	$116	37.50108	-117.89409
st53409	CA	Mono	150	26.8%	352.5	$7,000	$35	$198	24.3%	319.2	$3,700	$20	$116	37.47935	-117.86985
st57959	CA	Mono	150	25.6%	335.8	$7,000	$35	$207	22.8%	300.2	$3,700	$20	$123	37.89335	-119.08194
st57982	CA	Mono	150	25.6%	335.8	$7,001	$35	$207	22.8%	300.2	$3,701	$20	$123	37.89335	-119.0577

			Base Case One-Axis Tracking Crystalline Solar PV						Sensitivity Case 20 Degree Fixed Tilt Thin Film Solar PV						
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
st58203	CA	Mono	150	26.1%	343.3	$7,000	$35	$203	23.4%	307.8	$3,700	$20	$120	37.69696	-118.81528
st58223	CA	Mono	150	25.0%	328.5	$7,000	$35	$212	22.2%	291.2	$3,700	$20	$127	37.63161	-118.79104
st58226	CA	Mono	150	26.1%	343.3	$7,001	$35	$203	23.4%	307.8	$3,701	$20	$120	37.69696	-118.79104
st58248	CA	Mono	150	25.2%	330.5	$7,001	$35	$211	22.3%	293.6	$3,701	$20	$126	37.67517	-118.7668
st58249	CA	Mono	150	26.3%	345.7	$7,000	$35	$201	23.7%	310.9	$3,700	$20	$119	37.69696	-118.7668
st58272	CA	Mono	150	26.3%	345.7	$7,001	$35	$201	23.7%	310.9	$3,701	$20	$119	37.69696	-118.74256
st59046	CA	Mono	150	26.2%	344.6	$7,001	$35	$202	23.7%	311.2	$3,701	$20	$119	37.52282	-117.91833
st63447	CA	Mono	150	25.2%	330.8	$7,001	$35	$210	22.4%	295.0	$3,701	$20	$126	38.1999	-119.27588
st63448	CA	Mono	150	25.2%	330.8	$7,000	$35	$210	22.4%	295.0	$3,700	$20	$126	38.22185	-119.27588
st63449	CA	Mono	150	25.2%	330.8	$7,001	$35	$210	22.4%	295.0	$3,701	$20	$126	38.2438	-119.27588
st63450	CA	Mono	150	25.2%	330.8	$7,000	$35	$210	22.4%	295.0	$3,700	$20	$126	38.26576	-119.27588
st63470	CA	Mono	150	25.2%	330.8	$7,001	$35	$210	22.4%	295.0	$3,701	$20	$126	38.1999	-119.25164
st63471	CA	Mono	150	25.2%	330.8	$7,000	$35	$210	22.4%	295.0	$3,700	$20	$126	38.22185	-119.25164
st63719	CA	Mono	150	26.3%	345.9	$7,000	$35	$201	23.8%	312.9	$3,700	$20	$118	38.11219	-118.98498
st63766	CA	Mono	150	26.3%	345.9	$7,001	$35	$201	23.8%	312.9	$3,701	$20	$119	38.1341	-118.93649
st63790	CA	Mono	150	26.3%	345.9	$7,000	$35	$201	23.8%	312.9	$3,700	$20	$118	38.15602	-118.91225
st68271	CA	Mono	150	25.1%	329.8	$7,000	$35	$211	22.5%	295.4	$3,700	$20	$125	38.59594	-119.49405
st68292	CA	Mono	150	25.1%	329.8	$7,000	$35	$211	22.5%	295.4	$3,700	$20	$125	38.57388	-119.46981
st68293	CA	Mono	150	25.1%	329.8	$7,000	$35	$211	22.5%	295.4	$3,700	$20	$125	38.59594	-119.46981
st32156	CA	Monterey	150	25.4%	333.6	$7,000	$35	$209	22.5%	296.2	$3,700	$20	$125	35.82433	-121.02129
st32157	CA	Monterey	150	25.4%	333.6	$7,000	$35	$209	22.5%	296.2	$3,700	$20	$125	35.8456	-121.02129
st32485	CA	Monterey	150	25.6%	336.3	$7,000	$35	$207	22.8%	298.9	$3,700	$20	$124	35.97334	-120.68191
st32502	CA	Monterey	150	25.7%	337.5	$7,000	$35	$206	22.9%	300.5	$3,700	$20	$123	35.8456	-120.65767
st32503	CA	Monterey	150	25.7%	337.5	$7,000	$35	$206	22.9%	300.5	$3,700	$20	$123	35.86687	-120.65767
st32526	CA	Monterey	150	25.7%	337.5	$7,000	$35	$206	22.9%	300.5	$3,700	$20	$123	35.86687	-120.63342
st32729	CA	Monterey	150	25.5%	335.1	$7,000	$35	$208	22.6%	297.5	$3,700	$20	$125	35.7818	-120.41525
st32755	CA	Monterey	150	25.5%	334.9	$7,001	$35	$208	22.6%	297.0	$3,701	$20	$125	35.8456	-120.391
st32777	CA	Monterey	150	25.5%	334.6	$7,000	$35	$208	22.6%	296.6	$3,700	$20	$125	35.82433	-120.36676
st32779	CA	Monterey	150	25.5%	334.6	$7,000	$35	$208	22.6%	296.6	$3,700	$20	$125	35.86687	-120.36676
st32798	CA	Monterey	150	25.3%	333.0	$7,000	$35	$209	22.5%	295.2	$3,700	$20	$126	35.7818	-120.34252
st32799	CA	Monterey	150	25.5%	334.6	$7,000	$35	$208	22.6%	296.6	$3,700	$20	$125	35.80306	-120.34252
st32801	CA	Monterey	150	25.5%	334.6	$7,000	$35	$208	22.6%	296.6	$3,700	$20	$125	35.8456	-120.34252
st32821	CA	Monterey	150	25.3%	333.0	$7,001	$35	$209	22.5%	295.2	$3,701	$20	$126	35.7818	-120.31828
st38886	CA	Monterey	150	25.0%	328.1	$7,000	$35	$212	22.2%	291.8	$3,700	$20	$127	36.20806	-120.94857
st38979	CA	Monterey	150	25.1%	330.1	$7,000	$35	$211	22.4%	294.2	$3,700	$20	$126	36.14398	-120.8516
st38980	CA	Monterey	150	25.1%	330.1	$7,000	$35	$211	22.4%	294.2	$3,700	$20	$126	36.16533	-120.8516
st39000	CA	Monterey	150	25.0%	329.0	$7,001	$35	$212	22.3%	293.6	$3,701	$20	$126	36.07994	-120.82736
st75812	CA	Plumas	150	24.2%	318.1	$7,001	$35	$219	21.5%	283.0	$3,701	$20	$131	39.73018	-120.36676
st75834	CA	Plumas	150	24.2%	318.1	$7,001	$35	$219	21.5%	283.0	$3,701	$20	$131	39.73018	-120.34252
st75855	CA	Plumas	150	24.2%	318.1	$7,001	$35	$219	21.5%	283.0	$3,701	$20	$131	39.70776	-120.31828
st75860	CA	Plumas	150	24.3%	319.6	$7,000	$35	$218	21.6%	283.3	$3,700	$20	$131	39.81991	-120.31828
st75882	CA	Plumas	150	24.3%	319.6	$7,000	$35	$218	21.6%	283.3	$3,700	$20	$131	39.81991	-120.29404
st75944	CA	Plumas	150	24.8%	325.4	$7,000	$35	$214	22.2%	291.4	$3,700	$20	$127	39.73018	-120.22131
st75945	CA	Plumas	150	24.8%	325.4	$7,001	$35	$214	22.2%	291.4	$3,701	$20	$127	39.7526	-120.22131
st75969	CA	Plumas	150	24.3%	319.5	$7,000	$35	$218	21.6%	283.8	$3,700	$20	$131	39.79747	-120.19707
st79047	CA	Plumas	150	24.2%	317.9	$7,000	$35	$219	21.5%	283.1	$3,700	$20	$131	40.24782	-121.28795
st79392	CA	Plumas	150	24.1%	316.1	$7,001	$35	$220	21.4%	281.3	$3,701	$20	$132	40.08986	-120.90008
st79393	CA	Plumas	150	24.1%	316.1	$7,000	$35	$220	21.4%	281.3	$3,700	$20	$132	40.1124	-120.90008
st79394	CA	Plumas	150	24.1%	316.1	$7,000	$35	$220	21.4%	281.3	$3,700	$20	$132	40.13495	-120.90008
st79416	CA	Plumas	150	24.1%	316.7	$7,001	$35	$220	21.4%	281.8	$3,701	$20	$132	40.13495	-120.87584
st6623	CA	Riverside	150	26.8%	352.4	$7,001	$35	$198	24.0%	314.9	$3,701	$20	$118	33.4765	-114.81537
st6670	CA	Riverside	150	26.6%	349.9	$7,001	$35	$199	23.8%	313.0	$3,701	$20	$118	33.45583	-114.76689
st6671	CA	Riverside	150	26.6%	349.9	$7,001	$35	$199	23.8%	313.0	$3,701	$20	$118	33.4765	-114.76689
st6672	CA	Riverside	150	26.4%	347.0	$7,000	$35	$201	23.5%	309.1	$3,700	$20	$120	33.49718	-114.76689
st6696	CA	Riverside	150	26.4%	347.0	$7,000	$35	$201	23.5%	309.1	$3,700	$20	$120	33.49718	-114.74265
st8771	CA	Riverside	150	25.4%	333.8	$7,000	$35	$209	22.6%	297.1	$3,700	$20	$125	33.72493	-117.1426
st9450	CA	Riverside	150	27.3%	358.1	$7,000	$35	$194	24.5%	321.4	$3,700	$20	$115	33.87018	-116.46382
st9451	CA	Riverside	150	27.9%	367.1	$7,000	$35	$190	25.2%	330.6	$3,700	$20	$112	33.89095	-116.46382
st9968	CA	Riverside	150	27.2%	356.8	$7,001	$35	$195	24.2%	318.3	$3,701	$20	$116	33.66276	-115.9305
st10016	CA	Riverside	150	27.1%	356.5	$7,000	$35	$195	24.3%	318.7	$3,700	$20	$116	33.66276	-115.88202
st10040	CA	Riverside	150	27.1%	356.5	$7,000	$35	$195	24.3%	318.7	$3,700	$20	$116	33.66276	-115.85777
st10064	CA	Riverside	150	27.1%	356.5	$7,000	$35	$195	24.3%	318.7	$3,700	$20	$116	33.66276	-115.83353
st10088	CA	Riverside	150	27.1%	356.5	$7,000	$35	$195	24.3%	318.7	$3,700	$20	$116	33.66276	-115.80929
st10456	CA	Riverside	150	27.0%	354.4	$7,000	$35	$196	24.1%	316.3	$3,700	$20	$117	33.82866	-115.44566
st10457	CA	Riverside	150	27.0%	354.4	$7,000	$35	$196	24.1%	316.3	$3,700	$20	$117	33.84942	-115.44566
st10458	CA	Riverside	150	27.0%	354.4	$7,000	$35	$196	24.1%	316.3	$3,700	$20	$117	33.87018	-115.44566
st10459	CA	Riverside	150	26.7%	350.4	$7,001	$35	$199	23.8%	312.4	$3,701	$20	$119	33.89095	-115.44566
st10480	CA	Riverside	150	27.0%	354.4	$7,000	$35	$196	24.1%	316.3	$3,700	$20	$117	33.82866	-115.42142
st10481	CA	Riverside	150	27.0%	354.4	$7,000	$35	$196	24.1%	316.3	$3,700	$20	$117	33.84942	-115.42142
st10482	CA	Riverside	150	27.0%	354.4	$7,000	$35	$196	24.1%	316.3	$3,700	$20	$117	33.87018	-115.42142
st10483	CA	Riverside	150	26.7%	350.4	$7,000	$35	$199	23.8%	312.4	$3,700	$20	$119	33.89095	-115.42142
st10502	CA	Riverside	150	26.9%	353.5	$7,000	$35	$197	24.0%	316.0	$3,700	$20	$117	33.78715	-115.39718
st10503	CA	Riverside	150	27.0%	354.4	$7,001	$35	$196	24.1%	316.3	$3,701	$20	$117	33.8079	-115.39718
st10504	CA	Riverside	150	27.0%	354.4	$7,001	$35	$196	24.1%	316.3	$3,701	$20	$117	33.82866	-115.39718
st10505	CA	Riverside	150	27.0%	354.4	$7,000	$35	$196	24.1%	316.3	$3,700	$20	$117	33.84942	-115.39718
st10506	CA	Riverside	150	27.0%	354.4	$7,000	$35	$196	24.1%	316.3	$3,700	$20	$117	33.87018	-115.39718
st10523	CA	Riverside	150	26.9%	353.4	$7,001	$35	$197	24.0%	315.7	$3,701	$20	$117	33.72493	-115.37294
st10527	CA	Riverside	150	26.4%	346.4	$7,001	$35	$201	23.4%	307.5	$3,701	$20	$121	33.8079	-115.37294
st10528	CA	Riverside	150	26.4%	346.4	$7,001	$35	$201	23.4%	307.5	$3,701	$20	$121	33.82866	-115.37294
st10547	CA	Riverside	150	26.9%	353.4	$7,001	$35	$197	24.0%	315.7	$3,701	$20	$117	33.72493	-115.3487
st10548	CA	Riverside	150	26.9%	353.4	$7,000	$35	$197	24.0%	315.7	$3,700	$20	$117	33.74567	-115.3487
st10551	CA	Riverside	150	26.4%	346.4	$7,000	$35	$201	23.4%	307.5	$3,700	$20	$121	33.8079	-115.3487
st10571	CA	Riverside	150	26.9%	353.4	$7,001	$35	$197	24.0%	315.7	$3,701	$20	$117	33.72493	-115.32446
st10573	CA	Riverside	150	26.9%	353.4	$7,000	$35	$197	24.0%	315.7	$3,700	$20	$117	33.76641	-115.32446
st10594	CA	Riverside	150	26.9%	353.4	$7,000	$35	$197	24.0%	315.7	$3,700	$20	$117	33.7042	-115.30021
st10595	CA	Riverside	150	26.9%	353.4	$7,001	$35	$197	24.0%	315.7	$3,701	$20	$117	33.72493	-115.30021
st10596	CA	Riverside	150	26.9%	353.4	$7,002	$35	$197	24.0%	315.7	$3,702	$20	$117	33.74567	-115.30021
st10597	CA	Riverside	150	26.9%	353.4	$7,001	$35	$197	24.0%	315.7	$3,701	$20	$117	33.76641	-115.30021
st10618	CA	Riverside	150	26.6%	349.7	$7,001	$35	$199	23.8%	312.4	$3,701	$20	$119	33.7042	-115.27597
st10619	CA	Riverside	150	26.6%	349.7	$7,001	$35	$199	23.8%	312.4	$3,701	$20	$119	33.72493	-115.27597
st10620	CA	Riverside	150	26.6%	349.7	$7,003	$35	$199	23.8%	312.4	$3,703	$20	$119	33.74567	-115.27597
st10621	CA	Riverside	150	26.6%	349.7	$7,003	$35	$199	23.8%	312.4	$3,703	$20	$119	33.76641	-115.27597
st10641	CA	Riverside	150	27.0%	355.1	$7,000	$35	$196	24.1%	317.3	$3,700	$20	$117	33.68348	-115.25173

				Base Case **One-Axis Tracking Crystalline Solar PV**					**Sensitivity Case** **20 Degree Fixed Tilt Thin Film Solar PV**						
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
st10642	CA	Riverside	150	26.6%	349.7	$7,000	$35	$199	23.8%	312.4	$3,700	$20	$119	33.7042	-115.25173
st10643	CA	Riverside	150	26.6%	349.7	$7,001	$35	$199	23.8%	312.4	$3,701	$20	$119	33.72493	-115.25173
st10644	CA	Riverside	150	26.6%	349.7	$7,002	$35	$199	23.8%	312.4	$3,702	$20	$119	33.74567	-115.25173
st10645	CA	Riverside	150	26.6%	349.7	$7,004	$35	$199	23.8%	312.4	$3,704	$20	$119	33.76641	-115.25173
st10646	CA	Riverside	150	26.6%	349.7	$7,003	$35	$199	23.8%	312.4	$3,703	$20	$119	33.78715	-115.25173
st10653	CA	Riverside	150	26.4%	346.8	$7,001	$35	$201	23.5%	309.1	$3,701	$20	$120	33.93251	-115.25173
st10665	CA	Riverside	150	27.0%	355.1	$7,000	$35	$196	24.1%	317.3	$3,700	$20	$117	33.68348	-115.22749
st10666	CA	Riverside	150	26.6%	349.7	$7,000	$35	$199	23.8%	312.4	$3,700	$20	$119	33.7042	-115.22749
st10667	CA	Riverside	150	26.6%	349.7	$7,000	$35	$199	23.8%	312.4	$3,700	$20	$119	33.72493	-115.22749
st10669	CA	Riverside	150	26.6%	349.7	$7,004	$35	$199	23.8%	312.4	$3,704	$20	$119	33.76641	-115.22749
st10671	CA	Riverside	150	26.1%	342.9	$7,003	$35	$203	23.2%	304.5	$3,703	$20	$122	33.8079	-115.22749
st10673	CA	Riverside	150	26.1%	342.9	$7,002	$35	$203	23.2%	304.5	$3,702	$20	$122	33.84942	-115.22749
st10675	CA	Riverside	150	26.4%	346.8	$7,001	$35	$201	23.5%	309.1	$3,701	$20	$120	33.89095	-115.22749
st10677	CA	Riverside	150	26.4%	346.8	$7,001	$35	$201	23.5%	309.1	$3,701	$20	$120	33.93251	-115.22749
st10689	CA	Riverside	150	27.0%	355.1	$7,000	$35	$196	24.1%	317.3	$3,700	$20	$117	33.68348	-115.20325
st10690	CA	Riverside	150	26.6%	349.7	$7,000	$35	$199	23.8%	312.4	$3,700	$20	$119	33.7042	-115.20325
st10691	CA	Riverside	150	26.6%	349.7	$7,002	$35	$199	23.8%	312.4	$3,702	$20	$119	33.72493	-115.20325
st10695	CA	Riverside	150	26.1%	342.9	$7,002	$35	$203	23.2%	304.5	$3,702	$20	$122	33.8079	-115.20325
st10697	CA	Riverside	150	26.1%	342.9	$7,002	$35	$203	23.2%	304.5	$3,702	$20	$122	33.84942	-115.20325
st10713	CA	Riverside	150	26.9%	354.0	$7,001	$35	$197	24.1%	316.7	$3,701	$20	$117	33.68348	-115.179
st10714	CA	Riverside	150	26.5%	347.6	$7,001	$35	$200	23.5%	308.9	$3,701	$20	$120	33.7042	-115.179
st10735	CA	Riverside	150	26.9%	354.0	$7,001	$35	$197	24.1%	316.7	$3,701	$20	$117	33.64204	-115.15476
st10758	CA	Riverside	150	26.9%	354.0	$7,000	$35	$197	24.1%	316.7	$3,700	$20	$117	33.62133	-115.13052
st10759	CA	Riverside	150	26.9%	354.0	$7,001	$35	$197	24.1%	316.7	$3,701	$20	$117	33.64204	-115.13052
st10782	CA	Riverside	150	26.9%	354.0	$7,001	$35	$197	24.1%	316.7	$3,701	$20	$117	33.62133	-115.10628
st10783	CA	Riverside	150	26.9%	354.0	$7,000	$35	$197	24.1%	316.7	$3,700	$20	$117	33.64204	-115.10628
st10784	CA	Riverside	150	26.9%	354.0	$7,000	$35	$197	24.1%	316.7	$3,700	$20	$117	33.66276	-115.10628
st10806	CA	Riverside	150	27.0%	354.7	$7,001	$35	$196	24.1%	316.8	$3,701	$20	$117	33.62133	-115.08204
st10807	CA	Riverside	150	27.0%	354.7	$7,001	$35	$196	24.1%	316.8	$3,701	$20	$117	33.64204	-115.08204
st10808	CA	Riverside	150	27.0%	354.7	$7,001	$35	$196	24.1%	316.8	$3,701	$20	$117	33.66276	-115.08204
st10830	CA	Riverside	150	27.0%	354.7	$7,000	$35	$196	24.1%	316.8	$3,700	$20	$117	33.62133	-115.05779
st10831	CA	Riverside	150	27.0%	354.7	$7,001	$35	$196	24.1%	316.8	$3,701	$20	$117	33.64204	-115.05779
st10832	CA	Riverside	150	27.0%	354.7	$7,001	$35	$196	24.1%	316.8	$3,701	$20	$117	33.66276	-115.05779
st10854	CA	Riverside	150	27.0%	354.7	$7,000	$35	$196	24.1%	316.8	$3,700	$20	$117	33.62133	-115.03355
st10855	CA	Riverside	150	27.0%	354.7	$7,002	$35	$196	24.1%	316.8	$3,702	$20	$117	33.64204	-115.03355
st10856	CA	Riverside	150	27.0%	354.7	$7,002	$35	$196	24.1%	316.8	$3,702	$20	$117	33.66276	-115.03355
st10878	CA	Riverside	150	27.0%	354.7	$7,000	$35	$196	24.1%	316.8	$3,700	$20	$117	33.62133	-115.00931
st10879	CA	Riverside	150	27.0%	354.7	$7,002	$35	$196	24.1%	316.8	$3,702	$20	$117	33.64204	-115.00931
st10880	CA	Riverside	150	27.0%	354.7	$7,001	$35	$196	24.1%	316.8	$3,701	$20	$117	33.66276	-115.00931
st10891	CA	Riverside	150	26.9%	352.8	$7,001	$35	$197	23.9%	314.6	$3,701	$20	$118	33.89095	-115.00931
st10893	CA	Riverside	150	26.9%	352.8	$7,000	$35	$197	23.9%	314.6	$3,700	$20	$118	33.93251	-115.00931
st10902	CA	Riverside	150	27.2%	357.1	$7,001	$35	$195	24.3%	319.9	$3,701	$20	$116	33.62133	-114.98507
st10903	CA	Riverside	150	27.2%	357.1	$7,000	$35	$195	24.3%	319.9	$3,700	$20	$116	33.64204	-114.98507
st10912	CA	Riverside	150	26.7%	350.7	$7,001	$35	$199	23.9%	313.4	$3,701	$20	$118	33.82866	-114.98507
st10913	CA	Riverside	150	26.7%	350.7	$7,001	$35	$199	23.9%	313.4	$3,701	$20	$118	33.84942	-114.98507
st10914	CA	Riverside	150	26.7%	350.7	$7,000	$35	$199	23.9%	313.4	$3,700	$20	$118	33.87018	-114.98507
st10915	CA	Riverside	150	26.8%	351.5	$7,000	$35	$198	23.9%	314.1	$3,700	$20	$118	33.89095	-114.98507
st10917	CA	Riverside	150	26.8%	351.5	$7,001	$35	$198	23.9%	314.1	$3,701	$20	$118	33.93251	-114.98507
st10926	CA	Riverside	150	27.2%	357.1	$7,000	$35	$195	24.3%	319.9	$3,700	$20	$116	33.62133	-114.96083
st10937	CA	Riverside	150	26.7%	350.7	$7,001	$35	$199	23.9%	313.4	$3,701	$20	$118	33.84942	-114.96083
st10938	CA	Riverside	150	26.7%	350.7	$7,001	$35	$199	23.9%	313.4	$3,701	$20	$118	33.87018	-114.96083
st10950	CA	Riverside	150	27.2%	357.1	$7,001	$35	$195	24.3%	319.9	$3,701	$20	$116	33.62133	-114.93658
st10974	CA	Riverside	150	27.2%	357.1	$7,001	$35	$195	24.3%	319.9	$3,701	$20	$116	33.62133	-114.91234
st10975	CA	Riverside	150	27.2%	357.1	$7,000	$35	$195	24.3%	319.9	$3,700	$20	$116	33.64204	-114.91234
st10985	CA	Riverside	150	26.7%	350.7	$7,002	$35	$199	23.9%	313.4	$3,702	$20	$118	33.84942	-114.91234
st10999	CA	Riverside	150	27.2%	357.1	$7,001	$35	$195	24.3%	319.9	$3,701	$20	$116	33.64204	-114.8881
st11017	CA	Riverside	150	27.0%	354.4	$7,001	$35	$196	24.1%	316.7	$3,701	$20	$117	33.51786	-114.86386
st11018	CA	Riverside	150	27.0%	354.4	$7,001	$35	$196	24.1%	316.7	$3,701	$20	$117	33.53854	-114.86386
st11019	CA	Riverside	150	27.0%	354.4	$7,002	$35	$196	24.1%	316.7	$3,702	$20	$117	33.55923	-114.86386
st11020	CA	Riverside	150	27.0%	354.4	$7,000	$35	$196	24.1%	316.7	$3,700	$20	$117	33.57993	-114.86386
st11021	CA	Riverside	150	26.6%	349.9	$7,000	$35	$199	23.8%	312.2	$3,700	$20	$119	33.60063	-114.86386
st11040	CA	Riverside	150	26.6%	349.2	$7,002	$35	$199	23.8%	312.5	$3,702	$20	$119	33.99488	-114.86386
st11042	CA	Riverside	150	27.0%	354.4	$7,003	$35	$196	24.1%	316.7	$3,703	$20	$117	33.53854	-114.83962
st11043	CA	Riverside	150	27.0%	354.4	$7,002	$35	$196	24.1%	316.7	$3,702	$20	$117	33.55923	-114.83962
st11044	CA	Riverside	150	27.0%	354.4	$7,002	$35	$196	24.1%	316.7	$3,702	$20	$117	33.57993	-114.83962
st11045	CA	Riverside	150	26.6%	349.9	$7,000	$35	$199	23.8%	312.2	$3,700	$20	$119	33.60063	-114.83962
st11046	CA	Riverside	150	26.6%	349.9	$7,001	$35	$199	23.8%	312.2	$3,701	$20	$119	33.62133	-114.83962
st11051	CA	Riverside	150	26.9%	353.1	$7,002	$35	$197	24.0%	314.9	$3,702	$20	$118	33.72493	-114.83962
st11052	CA	Riverside	150	26.9%	353.1	$7,004	$35	$197	24.0%	314.9	$3,704	$20	$118	33.74567	-114.83962
st11053	CA	Riverside	150	26.9%	353.1	$7,003	$35	$197	24.0%	314.9	$3,703	$20	$118	33.76641	-114.83962
st11054	CA	Riverside	150	26.9%	353.1	$7,001	$35	$197	24.0%	314.9	$3,701	$20	$118	33.78715	-114.83962
st11067	CA	Riverside	150	27.0%	354.4	$7,003	$35	$196	24.1%	316.7	$3,703	$20	$117	33.55923	-114.81537
st11068	CA	Riverside	150	27.0%	354.4	$7,002	$35	$196	24.1%	316.7	$3,702	$20	$117	33.57993	-114.81537
st11069	CA	Riverside	150	26.6%	349.9	$7,000	$35	$199	23.8%	312.2	$3,700	$20	$119	33.60063	-114.81537
st11070	CA	Riverside	150	26.6%	349.9	$7,000	$35	$199	23.8%	312.2	$3,700	$20	$119	33.62133	-114.81537
st11073	CA	Riverside	150	26.6%	349.9	$7,002	$35	$199	23.8%	312.2	$3,702	$20	$119	33.68348	-114.81537
st11074	CA	Riverside	150	26.9%	353.1	$7,002	$35	$197	24.0%	314.9	$3,702	$20	$118	33.7042	-114.81537
st11075	CA	Riverside	150	26.9%	353.1	$7,003	$35	$197	24.0%	314.9	$3,703	$20	$118	33.72493	-114.81537
st11076	CA	Riverside	150	26.9%	353.1	$7,003	$35	$197	24.0%	314.9	$3,703	$20	$118	33.74567	-114.81537
st11077	CA	Riverside	150	26.9%	353.1	$7,002	$35	$197	24.0%	314.9	$3,702	$20	$118	33.76641	-114.81537
st11078	CA	Riverside	150	26.9%	353.1	$7,001	$35	$197	24.0%	314.9	$3,701	$20	$118	33.78715	-114.81537
st11083	CA	Riverside	150	26.4%	346.8	$7,000	$35	$201	23.5%	308.9	$3,700	$20	$120	33.89095	-114.81537
st11084	CA	Riverside	150	26.4%	346.8	$7,001	$35	$201	23.5%	308.9	$3,701	$20	$120	33.91173	-114.81537
st11091	CA	Riverside	150	27.0%	354.4	$7,002	$35	$196	24.1%	316.7	$3,702	$20	$117	33.55923	-114.79113
st11092	CA	Riverside	150	27.0%	354.4	$7,002	$35	$196	24.1%	316.7	$3,702	$20	$117	33.57993	-114.79113
st11093	CA	Riverside	150	26.6%	349.9	$7,000	$35	$199	23.8%	312.2	$3,700	$20	$119	33.60063	-114.79113
st11096	CA	Riverside	150	26.6%	349.9	$7,002	$35	$199	23.8%	312.2	$3,702	$20	$119	33.66276	-114.79113
st11097	CA	Riverside	150	26.6%	349.9	$7,002	$35	$199	23.8%	312.2	$3,702	$20	$119	33.68348	-114.79113
st11098	CA	Riverside	150	26.9%	353.1	$7,002	$35	$197	24.0%	314.9	$3,702	$20	$118	33.7042	-114.79113
st11101	CA	Riverside	150	26.9%	353.1	$7,001	$35	$197	24.0%	314.9	$3,701	$20	$118	33.76641	-114.79113
st11102	CA	Riverside	150	26.9%	353.1	$7,000	$35	$197	24.0%	314.9	$3,700	$20	$118	33.78715	-114.79113
st11103	CA	Riverside	150	26.8%	352.7	$7,000	$35	$197	24.0%	314.9	$3,700	$20	$118	33.8079	-114.79113
st11105	CA	Riverside	150	26.8%	352.7	$7,001	$35	$197	24.0%	314.9	$3,701	$20	$118	33.84942	-114.79113

				Base Case One-Axis Tracking Crystalline Solar PV					Sensitivity Case 20 Degree Fixed Tilt Thin Film Solar PV						
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
st11106	CA	Riverside	150	26.8%	352.7	$7,000	$35	$197	24.0%	314.9	$3,700	$20	$118	33.87018	-114.79113
st11113	CA	Riverside	150	26.4%	347.0	$7,000	$35	$201	23.5%	309.1	$3,700	$20	$120	33.51786	-114.76689
st11114	CA	Riverside	150	26.4%	347.0	$7,000	$35	$201	23.5%	309.1	$3,700	$20	$120	33.53854	-114.76689
st11115	CA	Riverside	150	26.4%	347.0	$7,001	$35	$201	23.5%	309.1	$3,701	$20	$120	33.55923	-114.76689
st11116	CA	Riverside	150	26.4%	347.0	$7,001	$35	$201	23.5%	309.1	$3,701	$20	$120	33.57993	-114.76689
st11117	CA	Riverside	150	26.8%	352.5	$7,000	$35	$197	24.0%	315.0	$3,700	$20	$118	33.60063	-114.76689
st11119	CA	Riverside	150	26.8%	352.5	$7,001	$35	$197	24.0%	315.0	$3,701	$20	$118	33.64204	-114.76689
st11120	CA	Riverside	150	26.8%	352.5	$7,000	$35	$197	24.0%	315.0	$3,700	$20	$118	33.66276	-114.76689
st11121	CA	Riverside	150	26.8%	352.5	$7,000	$35	$197	24.0%	315.0	$3,700	$20	$118	33.68348	-114.76689
st11122	CA	Riverside	150	26.7%	351.3	$7,000	$35	$198	23.9%	314.1	$3,700	$20	$118	33.7042	-114.76689
st11123	CA	Riverside	150	26.7%	351.3	$7,000	$35	$198	23.9%	314.1	$3,700	$20	$118	33.72493	-114.76689
st11124	CA	Riverside	150	26.7%	351.3	$7,001	$35	$198	23.9%	314.1	$3,701	$20	$118	33.74567	-114.76689
st11125	CA	Riverside	150	26.7%	351.3	$7,001	$35	$198	23.9%	314.1	$3,701	$20	$118	33.76641	-114.76689
st11127	CA	Riverside	150	26.9%	354.0	$7,000	$35	$197	24.1%	316.7	$3,700	$20	$117	33.8079	-114.76689
st11129	CA	Riverside	150	26.9%	354.0	$7,000	$35	$197	24.1%	316.7	$3,700	$20	$117	33.84942	-114.76689
st11137	CA	Riverside	150	26.4%	347.0	$7,001	$35	$201	23.5%	309.1	$3,701	$20	$120	33.51786	-114.74265
st11138	CA	Riverside	150	26.4%	347.0	$7,000	$35	$201	23.5%	309.1	$3,700	$20	$120	33.53854	-114.74265
st11139	CA	Riverside	150	26.4%	347.0	$7,000	$35	$201	23.5%	309.1	$3,700	$20	$120	33.55923	-114.74265
st11140	CA	Riverside	150	26.4%	347.0	$7,000	$35	$201	23.5%	309.1	$3,700	$20	$120	33.57993	-114.74265
st11143	CA	Riverside	150	26.8%	352.5	$7,001	$35	$197	24.0%	315.0	$3,701	$20	$118	33.64204	-114.74265
st11144	CA	Riverside	150	26.8%	352.5	$7,001	$35	$197	24.0%	315.0	$3,701	$20	$118	33.66276	-114.74265
st11145	CA	Riverside	150	26.8%	352.5	$7,001	$35	$197	24.0%	315.0	$3,701	$20	$118	33.68348	-114.74265
st11146	CA	Riverside	150	26.7%	351.3	$7,000	$35	$198	23.9%	314.1	$3,700	$20	$118	33.7042	-114.74265
st11147	CA	Riverside	150	26.7%	351.3	$7,002	$35	$198	23.9%	314.1	$3,702	$20	$118	33.72493	-114.74265
st11148	CA	Riverside	150	26.7%	351.3	$7,001	$35	$198	23.9%	314.1	$3,701	$20	$118	33.74567	-114.74265
st11149	CA	Riverside	150	26.7%	351.3	$7,000	$35	$198	23.9%	314.1	$3,700	$20	$118	33.76641	-114.74265
st11151	CA	Riverside	150	26.9%	354.0	$7,000	$35	$197	24.1%	316.7	$3,700	$20	$117	33.8079	-114.74265
st11152	CA	Riverside	150	26.9%	354.0	$7,000	$35	$197	24.1%	316.7	$3,700	$20	$117	33.82866	-114.74265
st11162	CA	Riverside	150	26.4%	347.0	$7,001	$35	$201	23.5%	309.1	$3,701	$20	$120	33.53854	-114.71841
st11163	CA	Riverside	150	26.4%	347.0	$7,000	$35	$201	23.5%	309.1	$3,700	$20	$120	33.55923	-114.71841
st11164	CA	Riverside	150	26.4%	347.0	$7,000	$35	$201	23.5%	309.1	$3,700	$20	$120	33.57993	-114.71841
st11167	CA	Riverside	150	26.8%	352.5	$7,000	$35	$197	24.0%	315.0	$3,700	$20	$118	33.64204	-114.71841
st11168	CA	Riverside	150	26.8%	352.5	$7,000	$35	$197	24.0%	315.0	$3,700	$20	$118	33.66276	-114.71841
st11169	CA	Riverside	150	26.8%	352.5	$7,000	$35	$197	24.0%	315.0	$3,700	$20	$118	33.68348	-114.71841
st11170	CA	Riverside	150	26.7%	351.3	$7,001	$35	$198	23.9%	314.1	$3,701	$20	$118	33.7042	-114.71841
st11171	CA	Riverside	150	26.7%	351.3	$7,002	$35	$198	23.9%	314.1	$3,702	$20	$118	33.72493	-114.71841
st11172	CA	Riverside	150	26.7%	351.3	$7,000	$35	$198	23.9%	314.1	$3,700	$20	$118	33.74567	-114.71841
st11173	CA	Riverside	150	26.7%	351.3	$7,000	$35	$198	23.9%	314.1	$3,700	$20	$118	33.76641	-114.71841
st11174	CA	Riverside	150	26.7%	351.3	$7,000	$35	$198	23.9%	314.1	$3,700	$20	$118	33.78715	-114.71841
st11175	CA	Riverside	150	26.9%	354.0	$7,000	$35	$197	24.1%	316.7	$3,700	$20	$117	33.8079	-114.71841
st11176	CA	Riverside	150	26.9%	354.0	$7,000	$35	$197	24.1%	316.7	$3,700	$20	$117	33.82866	-114.71841
st11193	CA	Riverside	150	26.8%	352.5	$7,000	$35	$197	24.0%	315.0	$3,700	$20	$118	33.68348	-114.69417
st11194	CA	Riverside	150	26.7%	351.3	$7,001	$35	$198	23.9%	314.1	$3,701	$20	$118	33.7042	-114.69417
st11195	CA	Riverside	150	26.7%	351.3	$7,002	$35	$198	23.9%	314.1	$3,702	$20	$118	33.72493	-114.69417
st11197	CA	Riverside	150	26.7%	351.3	$7,000	$35	$198	23.9%	314.1	$3,700	$20	$118	33.76641	-114.69417
st11198	CA	Riverside	150	26.7%	351.3	$7,001	$35	$198	23.9%	314.1	$3,701	$20	$118	33.78715	-114.69417
st11199	CA	Riverside	150	26.9%	354.0	$7,000	$35	$197	24.1%	316.7	$3,700	$20	$117	33.8079	-114.69417
st11215	CA	Riverside	150	26.9%	353.1	$7,000	$35	$197	24.0%	315.8	$3,700	$20	$117	33.64204	-114.66993
st11216	CA	Riverside	150	26.9%	353.1	$7,000	$35	$197	24.0%	315.8	$3,700	$20	$117	33.66276	-114.66993
st11217	CA	Riverside	150	26.9%	353.1	$7,000	$35	$197	24.0%	315.8	$3,700	$20	$117	33.68348	-114.66993
st11219	CA	Riverside	150	26.8%	352.2	$7,001	$35	$198	24.0%	315.3	$3,701	$20	$118	33.72493	-114.66993
st11220	CA	Riverside	150	26.8%	352.2	$7,000	$35	$198	24.0%	315.3	$3,700	$20	$118	33.74567	-114.66993
st11221	CA	Riverside	150	26.8%	352.2	$7,000	$35	$198	24.0%	315.3	$3,700	$20	$118	33.76641	-114.66993
st11222	CA	Riverside	150	26.8%	352.2	$7,000	$35	$198	24.0%	315.3	$3,700	$20	$118	33.78715	-114.66993
st11243	CA	Riverside	150	26.8%	352.2	$7,000	$35	$198	24.0%	315.3	$3,700	$20	$118	33.72493	-114.64568
st11244	CA	Riverside	150	26.8%	352.2	$7,001	$35	$198	24.0%	315.3	$3,701	$20	$118	33.74567	-114.64568
st11245	CA	Riverside	150	26.8%	352.2	$7,001	$35	$198	24.0%	315.3	$3,701	$20	$118	33.76641	-114.64568
st11254	CA	Riverside	150	26.8%	352.2	$7,000	$35	$198	24.0%	315.3	$3,700	$20	$118	33.95329	-114.64568
st11267	CA	Riverside	150	26.8%	352.2	$7,000	$35	$198	24.0%	315.3	$3,700	$20	$118	33.72493	-114.62144
st11306	CA	Riverside	150	26.9%	353.4	$7,000	$35	$197	24.1%	316.1	$3,700	$20	$117	33.53854	-114.57296
st11338	CA	Riverside	150	26.9%	354.1	$7,000	$35	$197	24.1%	316.7	$3,700	$20	$117	33.7042	-114.54872
st17065	CA	Riverside	150	27.5%	361.0	$7,000	$35	$193	24.7%	323.9	$3,700	$20	$114	34.01569	-115.25173
st17115	CA	Riverside	150	27.5%	361.0	$7,000	$35	$193	24.7%	323.9	$3,700	$20	$114	34.0573	-115.20325
st17140	CA	Riverside	150	27.1%	355.8	$7,000	$35	$196	24.3%	318.9	$3,700	$20	$116	34.07812	-115.179
st17164	CA	Riverside	150	27.1%	355.8	$7,000	$35	$196	24.3%	318.9	$3,700	$20	$116	34.07812	-115.15476
st17187	CA	Riverside	150	27.1%	355.8	$7,000	$35	$196	24.3%	318.9	$3,700	$20	$116	34.0573	-115.13052
st17188	CA	Riverside	150	27.1%	355.8	$7,000	$35	$196	24.3%	318.9	$3,700	$20	$116	34.07812	-115.13052
st17212	CA	Riverside	150	27.1%	355.8	$7,001	$35	$196	24.3%	318.9	$3,701	$20	$116	34.07812	-115.10628
st17236	CA	Riverside	150	27.3%	359.1	$7,000	$35	$194	24.5%	322.0	$3,700	$20	$115	34.07812	-115.08204
st17380	CA	Riverside	150	27.4%	359.7	$7,002	$35	$194	24.6%	323.3	$3,702	$20	$115	34.07812	-114.93658
st17404	CA	Riverside	150	27.4%	359.7	$7,001	$35	$194	24.6%	323.3	$3,701	$20	$115	34.07812	-114.91234
st17428	CA	Riverside	150	27.4%	359.7	$7,001	$35	$194	24.6%	323.3	$3,701	$20	$115	34.07812	-114.8881
st17449	CA	Riverside	150	26.6%	349.2	$7,000	$35	$199	23.8%	312.5	$3,700	$20	$119	34.01569	-114.86386
st17450	CA	Riverside	150	26.6%	349.2	$7,000	$35	$199	23.8%	312.5	$3,700	$20	$119	34.03649	-114.86386
st17452	CA	Riverside	150	26.6%	349.2	$7,001	$35	$199	23.8%	312.5	$3,701	$20	$119	34.07812	-114.86386
st17474	CA	Riverside	150	26.6%	349.2	$7,002	$35	$199	23.8%	312.5	$3,702	$20	$119	34.03649	-114.83962
st17476	CA	Riverside	150	26.6%	349.2	$7,000	$35	$199	23.8%	312.5	$3,700	$20	$119	34.07812	-114.83962
st17499	CA	Riverside	150	26.6%	349.2	$7,000	$35	$199	23.8%	312.5	$3,700	$20	$119	34.0573	-114.81537
st17523	CA	Riverside	150	26.6%	349.2	$7,000	$35	$199	23.8%	312.5	$3,700	$20	$119	34.0573	-114.79113
st17546	CA	Riverside	150	27.0%	354.3	$7,000	$35	$196	24.1%	317.1	$3,700	$20	$117	34.03649	-114.76689
st17570	CA	Riverside	150	27.0%	354.3	$7,001	$35	$196	24.1%	317.1	$3,701	$20	$117	34.03649	-114.74265
st17571	CA	Riverside	150	27.0%	354.3	$7,001	$35	$196	24.1%	317.1	$3,701	$20	$117	34.0573	-114.74265
st17572	CA	Riverside	150	27.0%	354.3	$7,000	$35	$196	24.1%	317.1	$3,700	$20	$117	34.07812	-114.74265
st17836	CA	Riverside	150	26.5%	348.1	$7,000	$35	$200	23.7%	311.5	$3,700	$20	$119	34.07812	-114.47599
st14832	CA	San Bernardino	150	27.5%	361.6	$7,000	$35	$192	24.6%	323.4	$3,700	$20	$115	34.49552	-117.53046
st14856	CA	San Bernardino	150	27.5%	361.6	$7,000	$35	$192	24.6%	323.4	$3,700	$20	$115	34.49552	-117.50622
st14880	CA	San Bernardino	150	27.6%	362.2	$7,000	$35	$192	24.6%	323.9	$3,700	$20	$114	34.49552	-117.48198
st14904	CA	San Bernardino	150	27.6%	362.2	$7,000	$35	$192	24.6%	323.9	$3,700	$20	$114	34.49552	-117.45774
st14928	CA	San Bernardino	150	27.6%	362.2	$7,000	$35	$192	24.6%	323.9	$3,700	$20	$114	34.49552	-117.4335
st15239	CA	San Bernardino	150	27.4%	360.5	$7,000	$35	$193	24.5%	322.0	$3,700	$20	$115	34.4746	-117.11835
st15262	CA	San Bernardino	150	27.4%	360.5	$7,000	$35	$193	24.5%	322.0	$3,700	$20	$115	34.45368	-117.09411
st15310	CA	San Bernardino	150	27.4%	359.5	$7,000	$35	$194	24.5%	322.0	$3,700	$20	$115	34.45368	-117.04563
st15333	CA	San Bernardino	150	27.4%	359.5	$7,000	$35	$194	24.5%	322.0	$3,700	$20	$115	34.43277	-117.02139

				Base Case One-Axis Tracking Crystalline Solar PV					**Sensitivity Case** 20 Degree Fixed Tilt Thin Film Solar PV						
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
st15334	CA	San Bernardino	150	27.4%	359.5	$7,000	$35	$194	24.5%	322.0	$3,700	$20	$115	34.45368	-117.02139
st15360	CA	San Bernardino	150	27.3%	358.2	$7,000	$35	$194	24.3%	319.8	$3,700	$20	$116	34.49552	-116.99714
st15383	CA	San Bernardino	150	27.1%	355.6	$7,000	$35	$196	24.2%	318.2	$3,700	$20	$116	34.4746	-116.9729
st15384	CA	San Bernardino	150	27.0%	355.4	$7,001	$35	$196	24.2%	318.3	$3,701	$20	$116	34.49552	-116.9729
st15408	CA	San Bernardino	150	27.0%	355.4	$7,000	$35	$196	24.2%	318.3	$3,700	$20	$116	34.49552	-116.94866
st15430	CA	San Bernardino	150	27.1%	355.6	$7,000	$35	$196	24.2%	318.2	$3,700	$20	$116	34.45368	-116.92442
st15432	CA	San Bernardino	150	27.0%	355.4	$7,000	$35	$196	24.2%	318.3	$3,700	$20	$116	34.49552	-116.92442
st15453	CA	San Bernardino	150	27.1%	355.6	$7,000	$35	$196	24.2%	318.2	$3,700	$20	$116	34.43277	-116.90018
st15454	CA	San Bernardino	150	27.1%	355.6	$7,000	$35	$196	24.2%	318.2	$3,700	$20	$116	34.45368	-116.90018
st15456	CA	San Bernardino	150	27.0%	355.4	$7,000	$35	$196	24.2%	318.3	$3,700	$20	$116	34.49552	-116.90018
st15478	CA	San Bernardino	150	27.3%	358.3	$7,000	$35	$194	24.5%	321.6	$3,700	$20	$115	34.45368	-116.87593
st15502	CA	San Bernardino	150	27.3%	358.3	$7,000	$35	$194	24.5%	321.6	$3,700	$20	$115	34.45368	-116.85169
st15503	CA	San Bernardino	150	27.3%	358.3	$7,000	$35	$194	24.5%	321.6	$3,700	$20	$115	34.4746	-116.85169
st15504	CA	San Bernardino	150	27.4%	360.1	$7,000	$35	$193	24.6%	322.7	$3,700	$20	$115	34.49552	-116.85169
st15525	CA	San Bernardino	150	27.3%	358.3	$7,000	$35	$194	24.5%	321.6	$3,700	$20	$115	34.43277	-116.82745
st15549	CA	San Bernardino	150	27.3%	358.3	$7,000	$35	$194	24.5%	321.6	$3,700	$20	$115	34.43277	-116.80321
st15622	CA	San Bernardino	150	27.2%	358.0	$7,000	$35	$194	24.4%	320.9	$3,700	$20	$115	34.45368	-116.73048
st15623	CA	San Bernardino	150	27.2%	358.0	$7,000	$35	$194	24.4%	320.9	$3,700	$20	$115	34.4746	-116.73048
st15646	CA	San Bernardino	150	27.2%	358.0	$7,000	$35	$194	24.4%	320.9	$3,700	$20	$115	34.45368	-116.70624
st15720	CA	San Bernardino	150	27.2%	357.3	$7,002	$35	$195	24.4%	320.0	$3,702	$20	$116	34.49552	-116.63351
st15738	CA	San Bernardino	150	27.4%	359.9	$7,000	$35	$193	24.7%	324.3	$3,700	$20	$114	34.37008	-116.60927
st15743	CA	San Bernardino	150	27.1%	355.8	$7,001	$35	$196	24.3%	319.0	$3,701	$20	$116	34.4746	-116.60927
st15766	CA	San Bernardino	150	27.3%	359.2	$7,001	$35	$194	24.5%	322.4	$3,701	$20	$115	34.45368	-116.58503
st15767	CA	San Bernardino	150	27.3%	359.2	$7,000	$35	$194	24.5%	322.4	$3,700	$20	$115	34.4746	-116.58503
st15790	CA	San Bernardino	150	27.3%	359.2	$7,000	$35	$194	24.5%	322.4	$3,700	$20	$115	34.45368	-116.56079
st15808	CA	San Bernardino	150	27.2%	357.3	$7,000	$35	$195	24.4%	320.4	$3,700	$20	$116	34.32831	-116.53655
st15809	CA	San Bernardino	150	27.2%	357.3	$7,000	$35	$195	24.4%	320.4	$3,700	$20	$116	34.3492	-116.53655
st15811	CA	San Bernardino	150	27.3%	359.2	$7,000	$35	$194	24.5%	322.4	$3,700	$20	$115	34.39097	-116.53655
st15812	CA	San Bernardino	150	27.3%	359.2	$7,000	$35	$194	24.5%	322.4	$3,700	$20	$115	34.41187	-116.53655
st15832	CA	San Bernardino	150	27.2%	357.3	$7,000	$35	$195	24.4%	320.4	$3,700	$20	$116	34.32831	-116.51231
st15833	CA	San Bernardino	150	27.2%	357.3	$7,000	$35	$195	24.4%	320.4	$3,700	$20	$116	34.3492	-116.51231
st15834	CA	San Bernardino	150	27.2%	357.3	$7,001	$35	$195	24.4%	320.4	$3,701	$20	$116	34.37008	-116.51231
st15835	CA	San Bernardino	150	27.3%	359.2	$7,000	$35	$194	24.5%	322.4	$3,700	$20	$115	34.39097	-116.51231
st15836	CA	San Bernardino	150	27.3%	359.2	$7,000	$35	$194	24.5%	322.4	$3,700	$20	$115	34.41187	-116.51231
st15854	CA	San Bernardino	150	27.9%	366.7	$7,000	$35	$190	25.1%	329.7	$3,700	$20	$112	34.28655	-116.48807
st15855	CA	San Bernardino	150	27.2%	357.3	$7,001	$35	$195	24.4%	320.4	$3,701	$20	$116	34.30743	-116.48807
st15856	CA	San Bernardino	150	27.2%	357.3	$7,000	$35	$195	24.4%	320.4	$3,700	$20	$116	34.32831	-116.48807
st15857	CA	San Bernardino	150	27.2%	357.3	$7,000	$35	$195	24.4%	320.4	$3,700	$20	$116	34.3492	-116.48807
st15858	CA	San Bernardino	150	27.2%	357.3	$7,000	$35	$195	24.4%	320.4	$3,700	$20	$116	34.37008	-116.48807
st15859	CA	San Bernardino	150	27.3%	359.2	$7,000	$35	$194	24.5%	322.4	$3,700	$20	$115	34.39097	-116.48807
st15878	CA	San Bernardino	150	28.1%	368.6	$7,000	$35	$189	25.3%	331.9	$3,700	$20	$112	34.28655	-116.46382
st15879	CA	San Bernardino	150	27.3%	359.3	$7,000	$35	$194	24.5%	322.4	$3,700	$20	$115	34.30743	-116.46382
st15880	CA	San Bernardino	150	27.3%	359.3	$7,000	$35	$194	24.5%	322.4	$3,700	$20	$115	34.32831	-116.46382
st15881	CA	San Bernardino	150	27.3%	359.3	$7,000	$35	$194	24.5%	322.4	$3,700	$20	$115	34.3492	-116.46382
st15882	CA	San Bernardino	150	27.3%	359.3	$7,000	$35	$194	24.5%	322.4	$3,700	$20	$115	34.37008	-116.46382
st15883	CA	San Bernardino	150	27.0%	355.3	$7,001	$35	$196	24.2%	318.3	$3,701	$20	$116	34.39097	-116.46382
st15922	CA	San Bernardino	150	28.1%	368.6	$7,000	$35	$189	25.3%	331.9	$3,700	$20	$112	34.20312	-116.41534
st15926	CA	San Bernardino	150	28.1%	368.6	$7,000	$35	$189	25.3%	331.9	$3,700	$20	$112	34.28655	-116.41534
st15928	CA	San Bernardino	150	27.3%	359.3	$7,000	$35	$194	24.5%	322.4	$3,700	$20	$115	34.32831	-116.41534
st15929	CA	San Bernardino	150	27.3%	359.3	$7,000	$35	$194	24.5%	322.4	$3,700	$20	$115	34.3492	-116.41534
st15950	CA	San Bernardino	150	28.1%	368.6	$7,000	$35	$189	25.3%	331.9	$3,700	$20	$112	34.28655	-116.3911
st15951	CA	San Bernardino	150	27.3%	359.3	$7,000	$35	$194	24.5%	322.4	$3,700	$20	$115	34.30743	-116.3911
st15952	CA	San Bernardino	150	27.3%	359.3	$7,000	$35	$194	24.5%	322.4	$3,700	$20	$115	34.32831	-116.3911
st15953	CA	San Bernardino	150	27.3%	359.3	$7,000	$35	$194	24.5%	322.4	$3,700	$20	$115	34.3492	-116.3911
st15974	CA	San Bernardino	150	28.0%	368.3	$7,000	$35	$189	25.3%	332.0	$3,700	$20	$112	34.28655	-116.36686
st15975	CA	San Bernardino	150	27.0%	354.9	$7,000	$35	$196	24.2%	317.8	$3,700	$20	$117	34.30743	-116.36686
st15976	CA	San Bernardino	150	27.0%	354.9	$7,001	$35	$196	24.2%	317.8	$3,701	$20	$117	34.32831	-116.36686
st15977	CA	San Bernardino	150	27.0%	354.9	$7,001	$35	$196	24.2%	317.8	$3,701	$20	$117	34.3492	-116.36686
st15998	CA	San Bernardino	150	28.0%	368.3	$7,000	$35	$189	25.3%	332.0	$3,700	$20	$112	34.28655	-116.34261
st15999	CA	San Bernardino	150	27.0%	354.9	$7,000	$35	$196	24.2%	317.8	$3,700	$20	$117	34.30743	-116.34261
st16063	CA	San Bernardino	150	28.1%	369.0	$7,000	$35	$189	25.3%	332.9	$3,700	$20	$111	34.1406	-116.26989
st16089	CA	San Bernardino	150	28.1%	369.0	$7,000	$35	$189	25.3%	332.9	$3,700	$20	$111	34.18227	-116.24565
st16112	CA	San Bernardino	150	28.1%	369.0	$7,000	$35	$189	25.3%	332.9	$3,700	$20	$111	34.16143	-116.2214
st16113	CA	San Bernardino	150	28.1%	369.0	$7,000	$35	$189	25.3%	332.9	$3,700	$20	$111	34.18227	-116.2214
st16163	CA	San Bernardino	150	27.9%	366.3	$7,000	$35	$190	25.1%	330.0	$3,700	$20	$112	34.22397	-116.17292
st16184	CA	San Bernardino	150	27.5%	361.1	$7,000	$35	$193	24.7%	325.0	$3,700	$20	$114	34.16143	-116.14868
st16185	CA	San Bernardino	150	27.5%	361.1	$7,000	$35	$193	24.7%	325.0	$3,700	$20	$114	34.18227	-116.14868
stm16213	CA	San Bernardino	150	27.9%	366.3	$7,000	$35	$190	25.1%	330.0	$3,700	$20	$112	34.26569	-116.12444
st16233	CA	San Bernardino	150	27.5%	361.1	$7,000	$35	$193	24.7%	325.0	$3,700	$20	$114	34.18227	-116.10019
st16234	CA	San Bernardino	150	27.9%	366.3	$7,000	$35	$190	25.1%	330.0	$3,700	$20	$112	34.20312	-116.10019
st16258	CA	San Bernardino	150	27.5%	361.0	$7,000	$35	$193	24.7%	324.5	$3,700	$20	$114	34.20312	-116.07595
st16329	CA	San Bernardino	150	27.3%	358.9	$7,000	$35	$194	24.6%	322.7	$3,700	$20	$115	34.18227	-116.00323
st16330	CA	San Bernardino	150	27.5%	361.0	$7,000	$35	$193	24.7%	324.5	$3,700	$20	$114	34.20312	-116.00323
st16331	CA	San Bernardino	150	27.5%	361.0	$7,001	$35	$193	24.7%	324.5	$3,701	$20	$114	34.22397	-116.00323
st16352	CA	San Bernardino	150	27.2%	357.3	$7,000	$35	$195	24.5%	321.4	$3,700	$20	$115	34.16143	-115.97898
st16353	CA	San Bernardino	150	27.2%	357.3	$7,000	$35	$195	24.5%	321.4	$3,700	$20	$115	34.18227	-115.97898
st16354	CA	San Bernardino	150	26.8%	352.6	$7,000	$35	$197	24.1%	316.1	$3,700	$20	$117	34.20312	-115.97898
st16355	CA	San Bernardino	150	26.8%	352.6	$7,001	$35	$197	24.1%	316.1	$3,701	$20	$117	34.22397	-115.97898
st16356	CA	San Bernardino	150	26.8%	352.6	$7,001	$35	$197	24.1%	316.1	$3,701	$20	$117	34.24483	-115.97898
st16357	CA	San Bernardino	150	26.8%	352.6	$7,002	$35	$197	24.1%	316.1	$3,702	$20	$117	34.26569	-115.97898
st16358	CA	San Bernardino	150	26.8%	352.6	$7,000	$35	$197	24.1%	316.1	$3,700	$20	$117	34.28655	-115.97898
st16379	CA	San Bernardino	150	26.8%	352.6	$7,002	$35	$197	24.1%	316.1	$3,702	$20	$117	34.22397	-115.95474
st16382	CA	San Bernardino	150	26.8%	352.6	$7,001	$35	$197	24.1%	316.1	$3,701	$20	$117	34.28655	-115.95474
st16402	CA	San Bernardino	150	26.8%	352.6	$7,000	$35	$197	24.1%	316.1	$3,700	$20	$117	34.20312	-115.9305
st16403	CA	San Bernardino	150	26.8%	352.6	$7,001	$35	$197	24.1%	316.1	$3,701	$20	$117	34.22397	-115.9305
st16406	CA	San Bernardino	150	26.8%	352.6	$7,001	$35	$197	24.1%	316.1	$3,701	$20	$117	34.28655	-115.9305
st16423	CA	San Bernardino	150	27.2%	357.3	$7,000	$35	$195	24.5%	321.4	$3,700	$20	$115	34.1406	-115.90626
st16424	CA	San Bernardino	150	27.2%	357.3	$7,000	$35	$195	24.5%	321.4	$3,700	$20	$115	34.16143	-115.90626
st16425	CA	San Bernardino	150	27.2%	357.3	$7,000	$35	$195	24.5%	321.4	$3,700	$20	$115	34.18227	-115.90626
st16426	CA	San Bernardino	150	26.8%	352.6	$7,000	$35	$197	24.1%	316.1	$3,700	$20	$117	34.20312	-115.90626
st16448	CA	San Bernardino	150	27.2%	358.0	$7,000	$35	$194	24.4%	321.2	$3,700	$20	$115	34.16143	-115.88202
st16449	CA	San Bernardino	150	27.2%	358.0	$7,000	$35	$194	24.4%	321.2	$3,700	$20	$115	34.18227	-115.88202
st16471	CA	San Bernardino	150	27.2%	358.0	$7,000	$35	$194	24.4%	321.2	$3,700	$20	$115	34.1406	-115.85777

				Base Case One-Axis Tracking Crystalline Solar PV					**Sensitivity Case** 20 Degree Fixed Tilt Thin Film Solar PV						
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
st16472	CA	San Bernardino	150	27.2%	358.0	$7,000	$35	$194	24.4%	321.2	$3,700	$20	$115	34.16143	-115.85777
st16520	CA	San Bernardino	150	27.2%	358.0	$7,000	$35	$194	24.4%	321.2	$3,700	$20	$115	34.16143	-115.80929
st16558	CA	San Bernardino	150	26.6%	350.1	$7,000	$35	$199	23.9%	313.6	$3,700	$20	$118	34.45368	-115.78505
st16559	CA	San Bernardino	150	26.6%	350.1	$7,002	$35	$199	23.9%	313.6	$3,702	$20	$118	34.4746	-115.78505
st16569	CA	San Bernardino	150	27.3%	358.1	$7,000	$35	$194	24.4%	321.2	$3,700	$20	$115	34.18227	-115.76081
st16582	CA	San Bernardino	150	26.6%	350.1	$7,000	$35	$199	23.9%	313.6	$3,700	$20	$118	34.45368	-115.76081
st16583	CA	San Bernardino	150	26.6%	350.1	$7,001	$35	$199	23.9%	313.6	$3,701	$20	$118	34.4746	-115.76081
st16584	CA	San Bernardino	150	26.6%	349.5	$7,001	$35	$199	23.8%	312.2	$3,701	$20	$119	34.49552	-115.76081
st16592	CA	San Bernardino	150	27.3%	358.1	$7,000	$35	$194	24.4%	321.2	$3,700	$20	$115	34.16143	-115.73657
st16606	CA	San Bernardino	150	26.6%	350.1	$7,000	$35	$199	23.9%	313.6	$3,700	$20	$118	34.45368	-115.73657
st16607	CA	San Bernardino	150	26.6%	350.1	$7,000	$35	$199	23.9%	313.6	$3,700	$20	$118	34.4746	-115.73657
st16628	CA	San Bernardino	150	26.6%	350.1	$7,000	$35	$199	23.9%	313.6	$3,700	$20	$118	34.41187	-115.71232
st16629	CA	San Bernardino	150	26.6%	350.1	$7,000	$35	$199	23.9%	313.6	$3,700	$20	$118	34.43277	-115.71232
st16651	CA	San Bernardino	150	26.6%	350.1	$7,001	$35	$199	23.9%	313.6	$3,701	$20	$118	34.39097	-115.68808
st16653	CA	San Bernardino	150	26.6%	350.1	$7,001	$35	$199	23.9%	313.6	$3,701	$20	$118	34.43277	-115.68808
st16654	CA	San Bernardino	150	26.6%	350.1	$7,000	$35	$199	23.9%	313.6	$3,700	$20	$118	34.45368	-115.68808
st16655	CA	San Bernardino	150	26.6%	350.1	$7,000	$35	$199	23.9%	313.6	$3,700	$20	$118	34.4746	-115.68808
st16656	CA	San Bernardino	150	26.6%	349.5	$7,000	$35	$199	23.8%	312.2	$3,700	$20	$119	34.49552	-115.68808
st16675	CA	San Bernardino	150	26.6%	348.9	$7,001	$35	$200	23.7%	311.9	$3,701	$20	$119	34.39097	-115.66384
st16676	CA	San Bernardino	150	26.6%	348.9	$7,000	$35	$200	23.7%	311.9	$3,700	$20	$119	34.41187	-115.66384
st16677	CA	San Bernardino	150	26.6%	348.9	$7,000	$35	$200	23.7%	311.9	$3,700	$20	$119	34.43277	-115.66384
st16678	CA	San Bernardino	150	26.6%	348.9	$7,000	$35	$200	23.7%	311.9	$3,700	$20	$119	34.45368	-115.66384
st16679	CA	San Bernardino	150	26.6%	348.9	$7,000	$35	$200	23.7%	311.9	$3,700	$20	$119	34.4746	-115.66384
st16680	CA	San Bernardino	150	26.7%	350.9	$7,001	$35	$198	23.9%	314.2	$3,701	$20	$118	34.49552	-115.66384
st16700	CA	San Bernardino	150	26.6%	348.9	$7,001	$35	$200	23.7%	311.9	$3,701	$20	$119	34.41187	-115.6396
st16701	CA	San Bernardino	150	26.6%	348.9	$7,001	$35	$200	23.7%	311.9	$3,701	$20	$119	34.43277	-115.6396
st16702	CA	San Bernardino	150	26.6%	348.9	$7,001	$35	$200	23.7%	311.9	$3,701	$20	$119	34.45368	-115.6396
st16703	CA	San Bernardino	150	26.6%	348.9	$7,000	$35	$200	23.7%	311.9	$3,700	$20	$119	34.4746	-115.6396
st16727	CA	San Bernardino	150	26.6%	348.9	$7,000	$35	$200	23.7%	311.9	$3,700	$20	$119	34.4746	-115.61536
st16774	CA	San Bernardino	150	26.9%	353.4	$7,000	$35	$197	24.0%	316.0	$3,700	$20	$117	34.45368	-115.56687
st16800	CA	San Bernardino	150	26.9%	353.9	$7,002	$35	$197	24.2%	317.6	$3,702	$20	$117	34.49552	-115.54263
st16821	CA	San Bernardino	150	26.9%	353.4	$7,001	$35	$197	24.0%	316.0	$3,701	$20	$117	34.43277	-115.51839
st16822	CA	San Bernardino	150	26.9%	353.4	$7,001	$35	$197	24.0%	316.0	$3,701	$20	$117	34.45368	-115.51839
st16823	CA	San Bernardino	150	26.9%	353.4	$7,001	$35	$197	24.0%	316.0	$3,701	$20	$117	34.4746	-115.51839
st16824	CA	San Bernardino	150	26.9%	353.9	$7,000	$35	$197	24.2%	317.6	$3,700	$20	$117	34.49552	-115.51839
st16843	CA	San Bernardino	150	26.9%	353.4	$7,002	$35	$197	24.0%	316.0	$3,702	$20	$117	34.39097	-115.49415
st16844	CA	San Bernardino	150	26.9%	353.4	$7,003	$35	$197	24.0%	316.0	$3,703	$20	$117	34.41187	-115.49415
st16845	CA	San Bernardino	150	26.9%	353.4	$7,003	$35	$197	24.0%	316.0	$3,703	$20	$117	34.43277	-115.49415
st16846	CA	San Bernardino	150	26.9%	353.4	$7,002	$35	$197	24.0%	316.0	$3,702	$20	$117	34.45368	-115.49415
st16847	CA	San Bernardino	150	26.9%	353.4	$7,000	$35	$197	24.0%	316.0	$3,700	$20	$117	34.4746	-115.49415
st16866	CA	San Bernardino	150	26.8%	351.8	$7,002	$35	$198	23.9%	313.9	$3,702	$20	$118	34.37008	-115.46991
st16868	CA	San Bernardino	150	27.2%	357.6	$7,001	$35	$195	24.4%	320.8	$3,701	$20	$116	34.41187	-115.46991
st16869	CA	San Bernardino	150	27.2%	357.6	$7,001	$35	$195	24.4%	320.8	$3,701	$20	$116	34.43277	-115.46991
st16870	CA	San Bernardino	150	27.2%	357.6	$7,001	$35	$195	24.4%	320.8	$3,701	$20	$116	34.45368	-115.46991
st16871	CA	San Bernardino	150	27.2%	357.6	$7,001	$35	$195	24.4%	320.8	$3,701	$20	$116	34.4746	-115.46991
st16893	CA	San Bernardino	150	27.2%	357.6	$7,001	$35	$195	24.4%	320.8	$3,701	$20	$116	34.43277	-115.44566
st16894	CA	San Bernardino	150	27.2%	357.6	$7,000	$35	$195	24.4%	320.8	$3,700	$20	$116	34.45368	-115.44566
st16895	CA	San Bernardino	150	27.2%	357.6	$7,001	$35	$195	24.4%	320.8	$3,701	$20	$116	34.4746	-115.44566
st16896	CA	San Bernardino	150	26.8%	352.1	$7,001	$35	$198	24.0%	315.6	$3,701	$20	$117	34.49552	-115.44566
st16910	CA	San Bernardino	150	26.7%	350.6	$7,001	$35	$199	23.9%	313.4	$3,701	$20	$118	34.28655	-115.42142
st16912	CA	San Bernardino	150	26.8%	351.8	$7,000	$35	$198	23.9%	313.9	$3,700	$20	$118	34.32831	-115.42142
st16917	CA	San Bernardino	150	27.2%	357.6	$7,001	$35	$195	24.4%	320.8	$3,701	$20	$116	34.43277	-115.42142
st16918	CA	San Bernardino	150	27.2%	357.6	$7,001	$35	$195	24.4%	320.8	$3,701	$20	$116	34.45368	-115.42142
st16942	CA	San Bernardino	150	27.2%	357.6	$7,002	$35	$195	24.4%	320.8	$3,702	$20	$116	34.45368	-115.39718
st16956	CA	San Bernardino	150	26.9%	353.8	$7,001	$35	$197	24.1%	316.8	$3,701	$20	$117	34.24483	-115.37294
st16959	CA	San Bernardino	150	27.1%	356.5	$7,001	$35	$195	24.3%	319.4	$3,701	$20	$116	34.30743	-115.37294
st16966	CA	San Bernardino	150	26.7%	351.3	$7,003	$35	$198	23.9%	313.8	$3,703	$20	$118	34.45368	-115.37294
st16976	CA	San Bernardino	150	26.9%	354.0	$7,002	$35	$197	24.1%	317.1	$3,702	$20	$117	34.16143	-115.3487
st16977	CA	San Bernardino	150	26.9%	354.0	$7,003	$35	$197	24.1%	317.1	$3,703	$20	$117	34.18227	-115.3487
st16981	CA	San Bernardino	150	26.9%	353.8	$7,001	$35	$197	24.1%	316.8	$3,701	$20	$117	34.26569	-115.3487
st16989	CA	San Bernardino	150	26.7%	351.3	$7,002	$35	$198	23.9%	313.8	$3,702	$20	$118	34.43277	-115.3487
st16990	CA	San Bernardino	150	26.7%	351.3	$7,002	$35	$198	23.9%	313.8	$3,702	$20	$118	34.45368	-115.3487
st16997	CA	San Bernardino	150	26.9%	354.0	$7,002	$35	$197	24.1%	317.1	$3,702	$20	$117	34.09894	-115.32446
st16998	CA	San Bernardino	150	26.9%	354.0	$7,002	$35	$197	24.1%	317.1	$3,702	$20	$117	34.11977	-115.32446
st16999	CA	San Bernardino	150	26.9%	354.0	$7,003	$35	$197	24.1%	317.1	$3,703	$20	$117	34.1406	-115.32446
st17002	CA	San Bernardino	150	26.9%	353.8	$7,005	$35	$197	24.1%	316.8	$3,705	$20	$117	34.20312	-115.32446
st17003	CA	San Bernardino	150	26.9%	353.8	$7,003	$35	$197	24.1%	316.8	$3,703	$20	$117	34.22397	-115.32446
st17004	CA	San Bernardino	150	26.9%	353.8	$7,002	$35	$197	24.1%	316.8	$3,702	$20	$117	34.24483	-115.32446
st17012	CA	San Bernardino	150	26.7%	351.3	$7,001	$35	$198	23.9%	313.8	$3,701	$20	$118	34.41187	-115.32446
st17013	CA	San Bernardino	150	26.7%	351.3	$7,001	$35	$198	23.9%	313.8	$3,701	$20	$118	34.43277	-115.32446
st17021	CA	San Bernardino	150	26.9%	354.0	$7,003	$35	$197	24.1%	317.1	$3,703	$20	$117	34.09894	-115.30021
st17022	CA	San Bernardino	150	26.9%	354.0	$7,003	$35	$197	24.1%	317.1	$3,703	$20	$117	34.11977	-115.30021
st17023	CA	San Bernardino	150	26.9%	354.0	$7,004	$35	$197	24.1%	317.1	$3,704	$20	$117	34.1406	-115.30021
st17026	CA	San Bernardino	150	26.9%	353.8	$7,006	$35	$197	24.1%	316.8	$3,706	$20	$117	34.20312	-115.30021
st17027	CA	San Bernardino	150	26.9%	353.8	$7,005	$35	$197	24.1%	316.8	$3,705	$20	$117	34.22397	-115.30021
st17028	CA	San Bernardino	150	26.9%	353.8	$7,004	$35	$197	24.1%	316.8	$3,704	$20	$117	34.24483	-115.30021
st17031	CA	San Bernardino	150	27.1%	356.5	$7,002	$35	$195	24.3%	319.4	$3,702	$20	$116	34.30743	-115.30021
st17032	CA	San Bernardino	150	27.1%	356.5	$7,000	$35	$195	24.3%	319.4	$3,700	$20	$116	34.32831	-115.30021
st17045	CA	San Bernardino	150	27.3%	359.1	$7,001	$35	$194	24.5%	321.7	$3,701	$20	$115	34.09894	-115.27597
st17046	CA	San Bernardino	150	27.3%	359.1	$7,001	$35	$194	24.5%	321.7	$3,701	$20	$115	34.11977	-115.27597
st17047	CA	San Bernardino	150	27.3%	359.1	$7,003	$35	$194	24.5%	321.7	$3,703	$20	$115	34.1406	-115.27597
st17048	CA	San Bernardino	150	27.3%	359.1	$7,004	$35	$194	24.5%	321.7	$3,704	$20	$115	34.16143	-115.27597
st17049	CA	San Bernardino	150	27.3%	359.1	$7,006	$35	$194	24.5%	321.7	$3,706	$20	$115	34.18227	-115.27597
st17050	CA	San Bernardino	150	27.1%	356.6	$7,007	$35	$195	24.3%	319.8	$3,707	$20	$116	34.20312	-115.27597
st17051	CA	San Bernardino	150	27.1%	356.6	$7,006	$35	$195	24.3%	319.8	$3,706	$20	$116	34.22397	-115.27597
st17052	CA	San Bernardino	150	27.1%	356.6	$7,006	$35	$195	24.3%	319.8	$3,706	$20	$116	34.24483	-115.27597
st17053	CA	San Bernardino	150	27.1%	356.6	$7,005	$35	$195	24.3%	319.8	$3,705	$20	$116	34.26569	-115.27597
st17054	CA	San Bernardino	150	27.1%	356.6	$7,004	$35	$195	24.3%	319.8	$3,704	$20	$116	34.28655	-115.27597
st17056	CA	San Bernardino	150	27.0%	354.8	$7,001	$35	$196	24.2%	318.3	$3,701	$20	$116	34.32831	-115.27597
st17069	CA	San Bernardino	150	27.3%	359.1	$7,000	$35	$194	24.5%	321.7	$3,700	$20	$115	34.09894	-115.25173
st17072	CA	San Bernardino	150	27.3%	359.1	$7,004	$35	$194	24.5%	321.7	$3,704	$20	$115	34.16143	-115.25173
st17073	CA	San Bernardino	150	27.3%	359.1	$7,006	$35	$194	24.5%	321.7	$3,706	$20	$115	34.18227	-115.25173
st17076	CA	San Bernardino	150	27.1%	356.6	$7,005	$35	$195	24.3%	319.8	$3,705	$20	$116	34.24483	-115.25173

				Base Case One-Axis Tracking Crystalline Solar PV					**Sensitivity Case** 20 Degree Fixed Tilt Thin Film Solar PV						
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
st17077	CA	San Bernardino	150	27.1%	356.6	$7,004	$35	$195	24.3%	319.8	$3,704	$20	$116	34.26569	-115.25173
st17078	CA	San Bernardino	150	27.1%	356.6	$7,002	$35	$195	24.3%	319.8	$3,702	$20	$116	34.28655	-115.25173
st17100	CA	San Bernardino	150	27.1%	356.6	$7,003	$35	$195	24.3%	319.8	$3,703	$20	$116	34.24483	-115.22749
st17101	CA	San Bernardino	150	27.1%	356.6	$7,002	$35	$195	24.3%	319.8	$3,702	$20	$116	34.26569	-115.22749
st17102	CA	San Bernardino	150	27.1%	356.6	$7,001	$35	$195	24.3%	319.8	$3,701	$20	$116	34.28655	-115.22749
st17124	CA	San Bernardino	150	27.1%	356.6	$7,002	$35	$195	24.3%	319.8	$3,702	$20	$116	34.24483	-115.20325
st17125	CA	San Bernardino	150	27.1%	356.6	$7,001	$35	$195	24.3%	319.8	$3,701	$20	$116	34.26569	-115.20325
st17141	CA	San Bernardino	150	26.7%	351.1	$7,001	$35	$198	23.9%	313.5	$3,701	$20	$118	34.09894	-115.179
st17142	CA	San Bernardino	150	26.7%	351.1	$7,001	$35	$198	23.9%	313.5	$3,701	$20	$118	34.11977	-115.179
st17147	CA	San Bernardino	150	26.6%	349.5	$7,003	$35	$199	23.7%	311.7	$3,703	$20	$119	34.22397	-115.179
st17165	CA	San Bernardino	150	26.7%	351.1	$7,000	$35	$198	23.9%	313.5	$3,700	$20	$118	34.09894	-115.15476
st17166	CA	San Bernardino	150	26.7%	351.1	$7,000	$35	$198	23.9%	313.5	$3,700	$20	$118	34.11977	-115.15476
st17167	CA	San Bernardino	150	26.7%	351.1	$7,000	$35	$198	23.9%	313.5	$3,700	$20	$118	34.1406	-115.15476
st17189	CA	San Bernardino	150	26.7%	351.1	$7,000	$35	$198	23.9%	313.5	$3,700	$20	$118	34.09894	-115.13052
st17190	CA	San Bernardino	150	26.7%	351.1	$7,000	$35	$198	23.9%	313.5	$3,700	$20	$118	34.11977	-115.13052
st17191	CA	San Bernardino	150	26.7%	351.1	$7,000	$35	$198	23.9%	313.5	$3,700	$20	$118	34.1406	-115.13052
st17192	CA	San Bernardino	150	26.7%	351.1	$7,001	$35	$198	23.9%	313.5	$3,701	$20	$118	34.16143	-115.13052
st17193	CA	San Bernardino	150	26.7%	351.1	$7,001	$35	$198	23.9%	313.5	$3,701	$20	$118	34.18227	-115.13052
st17196	CA	San Bernardino	150	26.6%	349.5	$7,001	$35	$199	23.7%	311.7	$3,701	$20	$119	34.24483	-115.13052
st17213	CA	San Bernardino	150	26.7%	351.1	$7,000	$35	$198	23.9%	313.5	$3,700	$20	$118	34.09894	-115.10628
st17214	CA	San Bernardino	150	26.7%	351.1	$7,000	$35	$198	23.9%	313.5	$3,700	$20	$118	34.11977	-115.10628
st17215	CA	San Bernardino	150	26.7%	351.1	$7,001	$35	$198	23.9%	313.5	$3,701	$20	$118	34.1406	-115.10628
st17216	CA	San Bernardino	150	26.7%	351.1	$7,000	$35	$198	23.9%	313.5	$3,700	$20	$118	34.16143	-115.10628
st17217	CA	San Bernardino	150	26.7%	351.1	$7,000	$35	$198	23.9%	313.5	$3,700	$20	$118	34.18227	-115.10628
st17218	CA	San Bernardino	150	26.6%	349.5	$7,001	$35	$199	23.7%	311.7	$3,701	$20	$119	34.20312	-115.10628
st17238	CA	San Bernardino	150	27.2%	356.8	$7,001	$35	$195	24.4%	320.1	$3,701	$20	$116	34.11977	-115.08204
st17239	CA	San Bernardino	150	27.2%	356.8	$7,001	$35	$195	24.4%	320.1	$3,701	$20	$116	34.1406	-115.08204
st17240	CA	San Bernardino	150	27.2%	356.8	$7,001	$35	$195	24.4%	320.1	$3,701	$20	$116	34.16143	-115.08204
st17241	CA	San Bernardino	150	27.2%	356.8	$7,001	$35	$195	24.4%	320.1	$3,701	$20	$116	34.18227	-115.08204
st17242	CA	San Bernardino	150	27.1%	355.6	$7,001	$35	$196	24.2%	318.4	$3,701	$20	$116	34.20312	-115.08204
st17243	CA	San Bernardino	150	27.1%	355.6	$7,000	$35	$196	24.2%	318.4	$3,700	$20	$116	34.22397	-115.08204
st17262	CA	San Bernardino	150	27.2%	356.8	$7,002	$35	$195	24.4%	320.1	$3,702	$20	$116	34.11977	-115.05779
st17263	CA	San Bernardino	150	27.2%	356.8	$7,002	$35	$195	24.4%	320.1	$3,702	$20	$116	34.1406	-115.05779
st17264	CA	San Bernardino	150	27.2%	356.8	$7,000	$35	$195	24.4%	320.1	$3,700	$20	$116	34.16143	-115.05779
st17265	CA	San Bernardino	150	27.2%	356.8	$7,001	$35	$195	24.4%	320.1	$3,701	$20	$116	34.18227	-115.05779
st17266	CA	San Bernardino	150	27.1%	355.6	$7,000	$35	$196	24.2%	318.4	$3,700	$20	$116	34.20312	-115.05779
st17267	CA	San Bernardino	150	27.1%	355.6	$7,000	$35	$196	24.2%	318.4	$3,700	$20	$116	34.22397	-115.05779
st17285	CA	San Bernardino	150	27.2%	356.8	$7,000	$35	$195	24.4%	320.1	$3,700	$20	$116	34.09894	-115.03355
st17287	CA	San Bernardino	150	27.2%	356.8	$7,003	$35	$195	24.4%	320.1	$3,703	$20	$116	34.1406	-115.03355
st17288	CA	San Bernardino	150	27.2%	356.8	$7,001	$35	$195	24.4%	320.1	$3,701	$20	$116	34.16143	-115.03355
st17289	CA	San Bernardino	150	27.2%	356.8	$7,001	$35	$195	24.4%	320.1	$3,701	$20	$116	34.18227	-115.03355
st17291	CA	San Bernardino	150	27.1%	355.6	$7,000	$35	$196	24.2%	318.4	$3,700	$20	$116	34.22397	-115.03355
st17310	CA	San Bernardino	150	27.2%	356.8	$7,002	$35	$195	24.4%	320.1	$3,702	$20	$116	34.11977	-115.00931
st17311	CA	San Bernardino	150	27.2%	356.8	$7,003	$35	$195	24.4%	320.1	$3,703	$20	$116	34.1406	-115.00931
st17312	CA	San Bernardino	150	27.2%	356.8	$7,002	$35	$195	24.4%	320.1	$3,702	$20	$116	34.16143	-115.00931
st17315	CA	San Bernardino	150	27.1%	355.6	$7,001	$35	$196	24.2%	318.4	$3,701	$20	$116	34.22397	-115.00931
st17339	CA	San Bernardino	150	27.2%	357.9	$7,002	$35	$195	24.4%	321.2	$3,702	$20	$115	34.22397	-114.98507
st17357	CA	San Bernardino	150	27.1%	355.6	$7,001	$35	$196	24.3%	319.4	$3,701	$20	$116	34.09894	-114.96083
st17363	CA	San Bernardino	150	27.2%	357.9	$7,002	$35	$195	24.4%	321.2	$3,702	$20	$115	34.22397	-114.96083
st17381	CA	San Bernardino	150	27.1%	355.6	$7,000	$35	$196	24.3%	319.4	$3,700	$20	$116	34.09894	-114.93658
st17382	CA	San Bernardino	150	27.1%	355.6	$7,000	$35	$196	24.3%	319.4	$3,700	$20	$116	34.11977	-114.93658
st17387	CA	San Bernardino	150	27.2%	357.9	$7,003	$35	$195	24.4%	321.2	$3,703	$20	$115	34.22397	-114.93658
st17405	CA	San Bernardino	150	27.1%	355.6	$7,000	$35	$196	24.3%	319.4	$3,700	$20	$116	34.09894	-114.91234
st17406	CA	San Bernardino	150	27.1%	355.6	$7,000	$35	$196	24.3%	319.4	$3,700	$20	$116	34.11977	-114.91234
st17407	CA	San Bernardino	150	27.1%	355.6	$7,000	$35	$196	24.3%	319.4	$3,700	$20	$116	34.1406	-114.91234
st17408	CA	San Bernardino	150	27.1%	355.6	$7,002	$35	$196	24.3%	319.4	$3,702	$20	$116	34.16143	-114.91234
st17409	CA	San Bernardino	150	27.1%	355.6	$7,003	$35	$196	24.3%	319.4	$3,703	$20	$116	34.18227	-114.91234
st17430	CA	San Bernardino	150	27.1%	355.6	$7,000	$35	$196	24.3%	319.4	$3,700	$20	$116	34.11977	-114.8881
st17431	CA	San Bernardino	150	27.1%	355.6	$7,001	$35	$196	24.3%	319.4	$3,701	$20	$116	34.1406	-114.8881
st17432	CA	San Bernardino	150	27.1%	355.6	$7,003	$35	$196	24.3%	319.4	$3,703	$20	$116	34.16143	-114.8881
st17433	CA	San Bernardino	150	27.1%	355.6	$7,004	$35	$196	24.3%	319.4	$3,704	$20	$116	34.18227	-114.8881
st17453	CA	San Bernardino	150	26.9%	353.3	$7,000	$35	$197	24.0%	316.0	$3,700	$20	$117	34.09894	-114.86386
st17454	CA	San Bernardino	150	26.9%	353.3	$7,000	$35	$197	24.0%	316.0	$3,700	$20	$117	34.11977	-114.86386
st17573	CA	San Bernardino	150	26.7%	350.9	$7,000	$35	$198	23.9%	313.4	$3,700	$20	$118	34.09894	-114.74265
st17597	CA	San Bernardino	150	26.7%	350.9	$7,000	$35	$198	23.9%	313.4	$3,700	$20	$118	34.09894	-114.71841
st17741	CA	San Bernardino	150	26.7%	351.5	$7,001	$35	$198	23.9%	314.6	$3,701	$20	$118	34.09894	-114.57296
st17765	CA	San Bernardino	150	26.7%	351.5	$7,000	$35	$198	23.9%	314.6	$3,700	$20	$118	34.09894	-114.54872
st17789	CA	San Bernardino	150	26.7%	351.5	$7,000	$35	$198	23.9%	314.6	$3,700	$20	$118	34.09894	-114.52447
st17888	CA	San Bernardino	150	26.9%	353.7	$7,001	$35	$197	24.1%	316.6	$3,701	$20	$117	34.16143	-114.42751
st17889	CA	San Bernardino	150	26.9%	353.7	$7,000	$35	$197	24.1%	316.6	$3,700	$20	$117	34.18227	-114.42751
st17902	CA	San Bernardino	150	26.8%	351.9	$7,001	$35	$198	24.0%	315.2	$3,701	$20	$118	34.45368	-114.42751
st17912	CA	San Bernardino	150	26.9%	353.7	$7,001	$35	$197	24.1%	316.6	$3,701	$20	$117	34.16143	-114.40326
st21628	CA	San Bernardino	150	27.5%	361.8	$7,001	$35	$192	24.6%	323.4	$3,701	$20	$115	34.57925	-117.65167
st21629	CA	San Bernardino	150	27.6%	362.4	$7,000	$35	$192	24.7%	324.1	$3,700	$20	$114	34.60019	-117.65167
st21630	CA	San Bernardino	150	27.6%	362.4	$7,000	$35	$192	24.7%	324.1	$3,700	$20	$114	34.62115	-117.65167
st21633	CA	San Bernardino	150	27.6%	362.4	$7,000	$35	$192	24.7%	324.1	$3,700	$20	$114	34.68404	-117.65167
st21649	CA	San Bernardino	150	27.5%	361.8	$7,000	$35	$192	24.6%	323.4	$3,700	$20	$115	34.51645	-117.62743
st21650	CA	San Bernardino	150	27.5%	361.8	$7,000	$35	$192	24.6%	323.4	$3,700	$20	$115	34.53738	-117.62743
st21651	CA	San Bernardino	150	27.5%	361.8	$7,000	$35	$192	24.6%	323.4	$3,700	$20	$115	34.55831	-117.62743
st21653	CA	San Bernardino	150	27.6%	362.4	$7,000	$35	$192	24.7%	324.1	$3,700	$20	$114	34.60019	-117.62743
st21654	CA	San Bernardino	150	27.6%	362.4	$7,000	$35	$192	24.7%	324.1	$3,700	$20	$114	34.62115	-117.62743
st21656	CA	San Bernardino	150	27.6%	362.4	$7,000	$35	$192	24.7%	324.1	$3,700	$20	$114	34.66306	-117.62743
st21657	CA	San Bernardino	150	27.6%	362.4	$7,000	$35	$192	24.7%	324.1	$3,700	$20	$114	34.68404	-117.62743
st21674	CA	San Bernardino	150	27.5%	361.8	$7,000	$35	$192	24.6%	323.4	$3,700	$20	$115	34.53738	-117.60319
st21676	CA	San Bernardino	150	27.5%	361.8	$7,000	$35	$192	24.6%	323.4	$3,700	$20	$115	34.57925	-117.60319
st21677	CA	San Bernardino	150	27.6%	362.4	$7,000	$35	$192	24.7%	324.1	$3,700	$20	$114	34.60019	-117.60319
st21679	CA	San Bernardino	150	27.6%	362.4	$7,000	$35	$192	24.7%	324.1	$3,700	$20	$114	34.6421	-117.60319
st21680	CA	San Bernardino	150	27.6%	362.4	$7,000	$35	$192	24.7%	324.1	$3,700	$20	$114	34.66306	-117.60319
st21696	CA	San Bernardino	150	27.4%	359.8	$7,000	$35	$193	24.6%	322.7	$3,700	$20	$115	34.99918	-117.60319
st21698	CA	San Bernardino	150	27.5%	361.6	$7,000	$35	$192	24.6%	323.4	$3,700	$20	$115	34.53738	-117.57895
st21699	CA	San Bernardino	150	27.5%	361.6	$7,000	$35	$192	24.6%	323.4	$3,700	$20	$115	34.55831	-117.57895
st21700	CA	San Bernardino	150	27.5%	361.6	$7,000	$35	$192	24.6%	323.4	$3,700	$20	$115	34.57925	-117.57895
st21703	CA	San Bernardino	150	27.2%	357.5	$7,000	$35	$195	24.3%	319.6	$3,700	$20	$116	34.6421	-117.57895

				Base Case One-Axis Tracking Crystalline Solar PV					**Sensitivity Case** 20 Degree Fixed Tilt Thin Film Solar PV						
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
st21720	CA	San Bernardino	150	27.7%	364.4	$7,000	$35	$191	24.9%	327.4	$3,700	$20	$113	34.99918	-117.57895
st21722	CA	San Bernardino	150	27.5%	361.6	$7,000	$35	$192	24.6%	323.4	$3,700	$20	$115	34.53738	-117.55471
st21723	CA	San Bernardino	150	27.5%	361.6	$7,000	$35	$192	24.6%	323.4	$3,700	$20	$115	34.55831	-117.55471
st21725	CA	San Bernardino	150	27.2%	357.5	$7,000	$35	$195	24.3%	319.6	$3,700	$20	$116	34.60019	-117.55471
st21726	CA	San Bernardino	150	27.2%	357.5	$7,000	$35	$195	24.3%	319.6	$3,700	$20	$116	34.62115	-117.55471
st21745	CA	San Bernardino	150	27.5%	361.6	$7,000	$35	$193	24.6%	323.4	$3,700	$20	$115	34.51645	-117.53046
st21746	CA	San Bernardino	150	27.5%	361.6	$7,000	$35	$192	24.6%	323.4	$3,700	$20	$115	34.53738	-117.53046
st21747	CA	San Bernardino	150	27.5%	361.6	$7,000	$35	$192	24.6%	323.4	$3,700	$20	$115	34.55831	-117.53046
st21748	CA	San Bernardino	150	27.5%	361.6	$7,001	$35	$193	24.6%	323.4	$3,701	$20	$115	34.57925	-117.53046
st21749	CA	San Bernardino	150	27.2%	357.5	$7,000	$35	$195	24.3%	319.6	$3,700	$20	$116	34.60019	-117.53046
st21769	CA	San Bernardino	150	27.5%	361.6	$7,000	$35	$192	24.6%	323.4	$3,700	$20	$115	34.51645	-117.50622
st21770	CA	San Bernardino	150	27.5%	361.6	$7,000	$35	$193	24.6%	323.4	$3,700	$20	$115	34.53738	-117.50622
st21771	CA	San Bernardino	150	27.5%	361.6	$7,000	$35	$192	24.6%	323.4	$3,700	$20	$115	34.55831	-117.50622
st21772	CA	San Bernardino	150	27.5%	361.6	$7,000	$35	$193	24.6%	323.4	$3,700	$20	$115	34.57925	-117.50622
st21773	CA	San Bernardino	150	27.2%	357.5	$7,000	$35	$195	24.3%	319.6	$3,700	$20	$116	34.60019	-117.50622
st21793	CA	San Bernardino	150	27.6%	362.2	$7,000	$35	$192	24.6%	323.9	$3,700	$20	$114	34.51645	-117.48198
st21794	CA	San Bernardino	150	27.6%	362.2	$7,000	$35	$192	24.6%	323.9	$3,700	$20	$114	34.53738	-117.48198
st21796	CA	San Bernardino	150	27.6%	362.2	$7,000	$35	$192	24.6%	323.9	$3,700	$20	$114	34.57925	-117.48198
st21798	CA	San Bernardino	150	27.5%	361.0	$7,000	$35	$193	24.6%	322.8	$3,700	$20	$115	34.62115	-117.48198
st21817	CA	San Bernardino	150	27.6%	362.2	$7,000	$35	$192	24.6%	323.9	$3,700	$20	$114	34.51645	-117.45774
st21822	CA	San Bernardino	150	27.5%	361.0	$7,000	$35	$193	24.6%	322.8	$3,700	$20	$115	34.62115	-117.45774
st21847	CA	San Bernardino	150	27.5%	361.0	$7,000	$35	$193	24.6%	322.8	$3,700	$20	$115	34.6421	-117.4335
st21848	CA	San Bernardino	150	27.5%	361.0	$7,000	$35	$193	24.6%	322.8	$3,700	$20	$115	34.66306	-117.4335
st21872	CA	San Bernardino	150	27.5%	361.0	$7,000	$35	$193	24.6%	322.8	$3,700	$20	$115	34.66306	-117.40925
st21919	CA	San Bernardino	150	27.6%	362.8	$7,000	$35	$192	24.7%	324.3	$3,700	$20	$114	34.6421	-117.36077
st21964	CA	San Bernardino	150	27.5%	361.7	$7,001	$35	$192	24.6%	323.3	$3,701	$20	$115	34.57925	-117.31229
st21965	CA	San Bernardino	150	27.6%	362.8	$7,000	$35	$192	24.7%	324.3	$3,700	$20	$114	34.60019	-117.31229
st21971	CA	San Bernardino	150	27.6%	362.2	$7,000	$35	$192	24.7%	324.1	$3,700	$20	$114	34.72598	-117.31229
st21973	CA	San Bernardino	150	27.6%	362.2	$7,000	$35	$192	24.7%	324.1	$3,700	$20	$114	34.76795	-117.31229
st21988	CA	San Bernardino	150	27.5%	361.7	$7,000	$35	$192	24.6%	323.3	$3,700	$20	$115	34.57925	-117.28805
st21989	CA	San Bernardino	150	27.6%	362.8	$7,001	$35	$192	24.7%	324.3	$3,701	$20	$114	34.60019	-117.28805
st21990	CA	San Bernardino	150	27.6%	362.8	$7,000	$35	$192	24.7%	324.3	$3,700	$20	$114	34.62115	-117.28805
st21991	CA	San Bernardino	150	27.6%	362.8	$7,000	$35	$192	24.7%	324.3	$3,700	$20	$114	34.6421	-117.28805
st21993	CA	San Bernardino	150	27.6%	362.8	$7,001	$35	$192	24.7%	324.3	$3,701	$20	$114	34.68404	-117.28805
st21994	CA	San Bernardino	150	27.6%	362.2	$7,001	$35	$192	24.7%	324.1	$3,701	$20	$114	34.70501	-117.28805
st21995	CA	San Bernardino	150	27.6%	362.2	$7,001	$35	$192	24.7%	324.1	$3,701	$20	$114	34.72598	-117.28805
st21996	CA	San Bernardino	150	27.6%	362.2	$7,000	$35	$192	24.7%	324.1	$3,700	$20	$114	34.74696	-117.28805
st21997	CA	San Bernardino	150	27.6%	362.2	$7,000	$35	$192	24.7%	324.1	$3,700	$20	$114	34.76795	-117.28805
st22012	CA	San Bernardino	150	27.5%	361.0	$7,000	$35	$193	24.5%	322.2	$3,700	$20	$115	34.57925	-117.2638
st22013	CA	San Bernardino	150	27.3%	358.2	$7,000	$35	$194	24.3%	319.6	$3,700	$20	$116	34.60019	-117.2638
st22014	CA	San Bernardino	150	27.3%	358.2	$7,000	$35	$194	24.3%	319.6	$3,700	$20	$116	34.62115	-117.2638
st22015	CA	San Bernardino	150	27.3%	358.2	$7,000	$35	$194	24.3%	319.6	$3,700	$20	$116	34.6421	-117.2638
st22017	CA	San Bernardino	150	27.3%	358.2	$7,000	$35	$194	24.3%	319.6	$3,700	$20	$116	34.68404	-117.2638
st22018	CA	San Bernardino	150	27.4%	359.8	$7,001	$35	$193	24.5%	321.9	$3,701	$20	$115	34.70501	-117.2638
st22019	CA	San Bernardino	150	27.4%	359.8	$7,001	$35	$194	24.5%	321.9	$3,701	$20	$115	34.72598	-117.2638
st22020	CA	San Bernardino	150	27.4%	359.8	$7,000	$35	$193	24.5%	321.9	$3,700	$20	$115	34.74696	-117.2638
st22021	CA	San Bernardino	150	27.4%	359.8	$7,000	$35	$193	24.5%	321.9	$3,700	$20	$115	34.76795	-117.2638
st22037	CA	San Bernardino	150	27.3%	358.2	$7,000	$35	$194	24.3%	319.6	$3,700	$20	$116	34.60019	-117.23956
st22038	CA	San Bernardino	150	27.3%	358.2	$7,000	$35	$194	24.3%	319.6	$3,700	$20	$116	34.62115	-117.23956
st22039	CA	San Bernardino	150	27.3%	358.2	$7,000	$35	$194	24.3%	319.6	$3,700	$20	$116	34.6421	-117.23956
st22041	CA	San Bernardino	150	27.3%	358.2	$7,000	$35	$194	24.3%	319.6	$3,700	$20	$116	34.68404	-117.23956
st22042	CA	San Bernardino	150	27.4%	359.8	$7,001	$35	$193	24.5%	321.9	$3,701	$20	$115	34.70501	-117.23956
st22043	CA	San Bernardino	150	27.4%	359.8	$7,000	$35	$193	24.5%	321.9	$3,700	$20	$115	34.72598	-117.23956
st22044	CA	San Bernardino	150	27.4%	359.8	$7,000	$35	$193	24.5%	321.9	$3,700	$20	$115	34.74696	-117.23956
st22045	CA	San Bernardino	150	27.4%	359.8	$7,000	$35	$193	24.5%	321.9	$3,700	$20	$115	34.76795	-117.23956
st22056	CA	San Bernardino	150	27.1%	356.4	$7,000	$35	$195	24.3%	319.1	$3,700	$20	$116	34.99918	-117.23956
st22062	CA	San Bernardino	150	27.3%	358.2	$7,000	$35	$194	24.3%	319.6	$3,700	$20	$116	34.62115	-117.21532
st22068	CA	San Bernardino	150	27.4%	359.8	$7,000	$35	$193	24.5%	321.9	$3,700	$20	$115	34.74696	-117.21532
st22077	CA	San Bernardino	150	27.6%	362.5	$7,000	$35	$192	24.7%	324.9	$3,700	$20	$114	34.93606	-117.21532
st22080	CA	San Bernardino	150	27.1%	356.4	$7,000	$35	$195	24.3%	319.1	$3,700	$20	$116	34.99918	-117.21532
st22129	CA	San Bernardino	150	27.6%	363.0	$7,000	$35	$192	24.7%	325.0	$3,700	$20	$114	34.51645	-117.1426
st22130	CA	San Bernardino	150	27.6%	363.0	$7,000	$35	$192	24.7%	325.0	$3,700	$20	$114	34.53738	-117.1426
st22143	CA	San Bernardino	150	27.3%	358.2	$7,000	$35	$194	24.4%	320.9	$3,700	$20	$116	34.80995	-117.1426
st22146	CA	San Bernardino	150	27.3%	358.2	$7,001	$35	$194	24.4%	320.9	$3,701	$20	$116	34.87298	-117.1426
st22166	CA	San Bernardino	150	27.6%	362.2	$7,000	$35	$192	24.7%	324.4	$3,700	$20	$114	34.78895	-117.11835
st22216	CA	San Bernardino	150	27.5%	361.3	$7,000	$35	$193	24.6%	323.6	$3,700	$20	$115	34.83095	-117.06987
st22239	CA	San Bernardino	150	27.5%	361.3	$7,000	$35	$193	24.6%	323.6	$3,700	$20	$115	34.80995	-117.04563
st22260	CA	San Bernardino	150	27.5%	361.9	$7,000	$35	$192	24.7%	323.9	$3,700	$20	$114	34.74696	-117.02139
st22298	CA	San Bernardino	150	27.0%	355.4	$7,001	$35	$196	24.2%	318.3	$3,701	$20	$116	34.53738	-116.9729
st22322	CA	San Bernardino	150	27.0%	355.4	$7,000	$35	$196	24.2%	318.3	$3,700	$20	$116	34.53738	-116.94866
st22323	CA	San Bernardino	150	27.0%	355.4	$7,000	$35	$196	24.2%	318.3	$3,700	$20	$116	34.55831	-116.94866
st22324	CA	San Bernardino	150	27.0%	355.4	$7,000	$35	$196	24.2%	318.3	$3,700	$20	$116	34.57925	-116.94866
st22325	CA	San Bernardino	150	27.4%	360.5	$7,000	$35	$193	24.6%	323.4	$3,700	$20	$115	34.60019	-116.94866
st22345	CA	San Bernardino	150	27.0%	355.4	$7,000	$35	$196	24.2%	318.3	$3,700	$20	$116	34.51645	-116.92442
st22347	CA	San Bernardino	150	27.0%	355.4	$7,000	$35	$196	24.2%	318.3	$3,700	$20	$116	34.55831	-116.92442
st22348	CA	San Bernardino	150	27.0%	355.4	$7,000	$35	$196	24.2%	318.3	$3,700	$20	$116	34.57925	-116.92442
st22370	CA	San Bernardino	150	27.0%	355.4	$7,000	$35	$196	24.2%	318.3	$3,700	$20	$116	34.53738	-116.90018
st22371	CA	San Bernardino	150	27.0%	355.4	$7,000	$35	$196	24.2%	318.3	$3,700	$20	$116	34.55831	-116.90018
st22372	CA	San Bernardino	150	27.0%	355.4	$7,000	$35	$196	24.2%	318.3	$3,700	$20	$116	34.57925	-116.90018
st22394	CA	San Bernardino	150	27.4%	360.1	$7,000	$35	$193	24.6%	322.7	$3,700	$20	$115	34.53738	-116.87593
st22395	CA	San Bernardino	150	27.4%	360.1	$7,000	$35	$193	24.6%	322.7	$3,700	$20	$115	34.55831	-116.87593
st22396	CA	San Bernardino	150	27.4%	360.1	$7,000	$35	$193	24.6%	322.7	$3,700	$20	$115	34.57925	-116.87593
st22417	CA	San Bernardino	150	27.4%	360.1	$7,000	$35	$193	24.6%	322.7	$3,700	$20	$115	34.51645	-116.85169
st22515	CA	San Bernardino	150	27.2%	358.0	$7,000	$35	$194	24.4%	321.1	$3,700	$20	$115	34.55831	-116.75472
st22529	CA	San Bernardino	150	26.9%	352.9	$7,000	$35	$197	24.0%	316.0	$3,700	$20	$117	34.85196	-116.75472
st22564	CA	San Bernardino	150	27.2%	358.0	$7,001	$35	$194	24.4%	321.1	$3,701	$20	$115	34.57925	-116.70624
st22615	CA	San Bernardino	150	27.3%	358.9	$7,001	$35	$194	24.5%	321.8	$3,701	$20	$115	34.6421	-116.65776
st22625	CA	San Bernardino	150	27.0%	355.2	$7,000	$35	$196	24.3%	318.7	$3,700	$20	$116	34.85196	-116.65776
st22649	CA	San Bernardino	150	27.0%	355.2	$7,000	$35	$196	24.3%	318.7	$3,700	$20	$116	34.85196	-116.63351
st22657	CA	San Bernardino	150	27.2%	357.3	$7,001	$35	$195	24.4%	320.0	$3,701	$20	$116	34.51645	-116.60927
st22658	CA	San Bernardino	150	27.2%	357.3	$7,000	$35	$195	24.4%	320.0	$3,700	$20	$116	34.53738	-116.60927
st22678	CA	San Bernardino	150	27.1%	355.8	$7,000	$35	$196	24.3%	319.2	$3,700	$20	$116	34.95709	-116.60927
st22682	CA	San Bernardino	150	27.3%	358.1	$7,001	$35	$194	24.5%	321.3	$3,701	$20	$115	34.53738	-116.58503

				Base Case One-Axis Tracking Crystalline Solar PV					**Sensitivity Case** 20 Degree Fixed Tilt Thin Film Solar PV						
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
st22695	CA	San Bernardino	150	26.8%	352.5	$7,000	$35	$198	24.0%	315.7	$3,700	$20	$117	34.80995	-116.58503
st22696	CA	San Bernardino	150	26.8%	352.5	$7,000	$35	$198	24.0%	315.7	$3,700	$20	$117	34.83095	-116.58503
st22697	CA	San Bernardino	150	26.8%	352.5	$7,001	$35	$198	24.0%	315.7	$3,701	$20	$117	34.85196	-116.58503
st22699	CA	San Bernardino	150	27.0%	354.4	$7,000	$35	$196	24.2%	317.6	$3,700	$20	$117	34.894	-116.58503
st22700	CA	San Bernardino	150	27.0%	354.4	$7,000	$35	$196	24.2%	317.6	$3,700	$20	$117	34.91503	-116.58503
st22719	CA	San Bernardino	150	26.8%	352.5	$7,000	$35	$197	24.0%	315.7	$3,700	$20	$117	34.80995	-116.56079
st22720	CA	San Bernardino	150	26.8%	352.5	$7,000	$35	$198	24.0%	315.7	$3,700	$20	$117	34.83095	-116.56079
st22721	CA	San Bernardino	150	26.8%	352.5	$7,000	$35	$198	24.0%	315.7	$3,700	$20	$117	34.85196	-116.56079
st22722	CA	San Bernardino	150	26.8%	352.5	$7,000	$35	$198	24.0%	315.7	$3,700	$20	$117	34.87298	-116.56079
st22742	CA	San Bernardino	150	27.1%	355.9	$7,000	$35	$196	24.3%	319.3	$3,700	$20	$116	34.78895	-116.53655
st22743	CA	San Bernardino	150	26.8%	352.5	$7,000	$35	$197	24.0%	315.7	$3,700	$20	$117	34.80995	-116.53655
st22744	CA	San Bernardino	150	26.8%	352.5	$7,001	$35	$198	24.0%	315.7	$3,701	$20	$117	34.83095	-116.53655
st22745	CA	San Bernardino	150	26.8%	352.5	$7,001	$35	$198	24.0%	315.7	$3,701	$20	$117	34.85196	-116.53655
st22754	CA	San Bernardino	150	27.3%	358.1	$7,000	$35	$194	24.5%	321.3	$3,700	$20	$115	34.53738	-116.51231
st22766	CA	San Bernardino	150	27.1%	355.9	$7,000	$35	$196	24.3%	319.3	$3,700	$20	$116	34.78895	-116.51231
st22767	CA	San Bernardino	150	26.8%	352.5	$7,000	$35	$198	24.0%	315.7	$3,700	$20	$117	34.80995	-116.51231
st22771	CA	San Bernardino	150	27.0%	354.4	$7,000	$35	$196	24.2%	317.6	$3,700	$20	$117	34.894	-116.51231
st22773	CA	San Bernardino	150	27.0%	354.4	$7,001	$35	$196	24.2%	317.6	$3,701	$20	$117	34.93606	-116.51231
st22776	CA	San Bernardino	150	27.2%	357.9	$7,000	$35	$195	24.4%	321.1	$3,700	$20	$115	34.99918	-116.51231
st22778	CA	San Bernardino	150	27.3%	358.1	$7,000	$35	$194	24.5%	321.3	$3,700	$20	$115	34.53738	-116.48807
st22780	CA	San Bernardino	150	27.3%	358.1	$7,001	$35	$194	24.5%	321.3	$3,701	$20	$115	34.57925	-116.48807
st22790	CA	San Bernardino	150	27.1%	355.9	$7,000	$35	$196	24.3%	319.3	$3,700	$20	$116	34.78895	-116.48807
st22791	CA	San Bernardino	150	26.8%	352.5	$7,000	$35	$197	24.0%	315.7	$3,700	$20	$117	34.80995	-116.48807
st22792	CA	San Bernardino	150	26.8%	352.5	$7,000	$35	$198	24.0%	315.7	$3,700	$20	$117	34.83095	-116.48807
st22813	CA	San Bernardino	150	27.2%	357.6	$7,000	$35	$195	24.4%	321.3	$3,700	$20	$115	34.76795	-116.46382
st22814	CA	San Bernardino	150	27.2%	357.6	$7,000	$35	$195	24.4%	321.3	$3,700	$20	$115	34.78895	-116.46382
st22815	CA	San Bernardino	150	27.1%	355.9	$7,000	$35	$196	24.3%	319.3	$3,700	$20	$116	34.80995	-116.46382
st22837	CA	San Bernardino	150	27.2%	357.6	$7,000	$35	$195	24.4%	321.3	$3,700	$20	$115	34.76795	-116.43958
st22838	CA	San Bernardino	150	27.2%	357.6	$7,000	$35	$195	24.4%	321.3	$3,700	$20	$115	34.78895	-116.43958
st22839	CA	San Bernardino	150	27.1%	355.9	$7,001	$35	$196	24.3%	319.3	$3,701	$20	$116	34.80995	-116.43958
st22860	CA	San Bernardino	150	27.2%	357.6	$7,000	$35	$195	24.4%	321.3	$3,700	$20	$115	34.74696	-116.41534
st22861	CA	San Bernardino	150	27.2%	357.6	$7,000	$35	$195	24.4%	321.3	$3,700	$20	$115	34.76795	-116.41534
st22862	CA	San Bernardino	150	27.2%	357.6	$7,000	$35	$195	24.4%	321.3	$3,700	$20	$115	34.78895	-116.41534
st22863	CA	San Bernardino	150	27.1%	355.9	$7,000	$35	$196	24.3%	319.3	$3,700	$20	$116	34.80995	-116.41534
st22885	CA	San Bernardino	150	27.2%	357.6	$7,000	$35	$195	24.4%	321.3	$3,700	$20	$115	34.76795	-116.3911
st22886	CA	San Bernardino	150	27.2%	357.6	$7,000	$35	$195	24.4%	321.3	$3,700	$20	$115	34.78895	-116.3911
st22887	CA	San Bernardino	150	27.1%	355.9	$7,000	$35	$196	24.3%	319.3	$3,700	$20	$116	34.80995	-116.3911
st22909	CA	San Bernardino	150	26.7%	350.8	$7,000	$35	$198	23.8%	313.3	$3,700	$20	$118	34.76795	-116.36686
st22910	CA	San Bernardino	150	26.7%	350.8	$7,000	$35	$198	23.8%	313.3	$3,700	$20	$118	34.78895	-116.36686
st22911	CA	San Bernardino	150	27.0%	355.4	$7,001	$35	$196	24.2%	318.4	$3,701	$20	$116	34.80995	-116.36686
st22932	CA	San Bernardino	150	26.7%	350.8	$7,000	$35	$198	23.8%	313.3	$3,700	$20	$118	34.74696	-116.34261
st22933	CA	San Bernardino	150	26.7%	350.8	$7,001	$35	$198	23.8%	313.3	$3,701	$20	$118	34.76795	-116.34261
st22934	CA	San Bernardino	150	26.7%	350.8	$7,001	$35	$198	23.8%	313.3	$3,701	$20	$118	34.78895	-116.34261
st22935	CA	San Bernardino	150	27.0%	355.4	$7,000	$35	$196	24.2%	318.4	$3,700	$20	$116	34.80995	-116.34261
st22956	CA	San Bernardino	150	26.7%	350.8	$7,000	$35	$198	23.8%	313.3	$3,700	$20	$118	34.74696	-116.31837
st22957	CA	San Bernardino	150	26.7%	350.8	$7,002	$35	$199	23.8%	313.3	$3,702	$20	$118	34.76795	-116.31837
st22958	CA	San Bernardino	150	26.7%	350.8	$7,002	$35	$199	23.8%	313.3	$3,702	$20	$118	34.78895	-116.31837
st22959	CA	San Bernardino	150	27.0%	355.4	$7,002	$35	$196	24.2%	318.4	$3,702	$20	$116	34.80995	-116.31837
st22978	CA	San Bernardino	150	26.7%	350.8	$7,001	$35	$199	23.8%	313.3	$3,701	$20	$118	34.70501	-116.29413
st22979	CA	San Bernardino	150	26.7%	350.8	$7,000	$35	$198	23.8%	313.3	$3,700	$20	$118	34.72598	-116.29413
st22980	CA	San Bernardino	150	26.7%	350.8	$7,000	$35	$198	23.8%	313.3	$3,700	$20	$118	34.74696	-116.29413
st22981	CA	San Bernardino	150	26.7%	350.8	$7,000	$35	$198	23.8%	313.3	$3,700	$20	$118	34.76795	-116.29413
st23003	CA	San Bernardino	150	26.9%	352.8	$7,000	$35	$197	24.1%	316.4	$3,700	$20	$117	34.72598	-116.26989
st23004	CA	San Bernardino	150	26.9%	352.8	$7,000	$35	$197	24.1%	316.4	$3,700	$20	$117	34.74696	-116.26989
st23007	CA	San Bernardino	150	27.2%	357.2	$7,001	$35	$195	24.4%	321.1	$3,701	$20	$115	34.80995	-116.26989
st23008	CA	San Bernardino	150	27.2%	357.2	$7,001	$35	$195	24.4%	321.1	$3,701	$20	$115	34.83095	-116.26989
st23027	CA	San Bernardino	150	26.9%	352.8	$7,000	$35	$197	24.1%	316.4	$3,700	$20	$117	34.72598	-116.24565
st23028	CA	San Bernardino	150	26.9%	352.8	$7,001	$35	$197	24.1%	316.4	$3,701	$20	$117	34.74696	-116.24565
st23031	CA	San Bernardino	150	27.2%	357.2	$7,001	$35	$195	24.4%	321.1	$3,701	$20	$115	34.80995	-116.24565
st23032	CA	San Bernardino	150	27.2%	357.2	$7,000	$35	$195	24.4%	321.1	$3,700	$20	$115	34.83095	-116.24565
st23033	CA	San Bernardino	150	27.2%	357.2	$7,002	$35	$195	24.4%	321.1	$3,702	$20	$115	34.85196	-116.24565
st23051	CA	San Bernardino	150	26.9%	352.8	$7,000	$35	$197	24.1%	316.4	$3,700	$20	$117	34.72598	-116.2214
st23052	CA	San Bernardino	150	26.9%	352.8	$7,000	$35	$197	24.1%	316.4	$3,700	$20	$117	34.74696	-116.2214
st23053	CA	San Bernardino	150	26.9%	352.8	$7,000	$35	$197	24.1%	316.4	$3,700	$20	$117	34.76795	-116.2214
st23055	CA	San Bernardino	150	27.2%	357.2	$7,000	$35	$195	24.4%	321.1	$3,700	$20	$115	34.80995	-116.2214
st23056	CA	San Bernardino	150	27.2%	357.2	$7,001	$35	$195	24.4%	321.1	$3,701	$20	$115	34.83095	-116.2214
st23057	CA	San Bernardino	150	27.2%	357.2	$7,000	$35	$195	24.4%	321.1	$3,700	$20	$115	34.85196	-116.2214
st23075	CA	San Bernardino	150	26.9%	352.8	$7,000	$35	$197	24.1%	316.4	$3,700	$20	$117	34.72598	-116.19716
st23076	CA	San Bernardino	150	26.9%	352.8	$7,000	$35	$197	24.1%	316.4	$3,700	$20	$117	34.74696	-116.19716
st23077	CA	San Bernardino	150	26.9%	352.8	$7,001	$35	$197	24.1%	316.4	$3,701	$20	$117	34.76795	-116.19716
st23078	CA	San Bernardino	150	26.9%	352.8	$7,001	$35	$197	24.1%	316.4	$3,701	$20	$117	34.78895	-116.19716
st23079	CA	San Bernardino	150	27.2%	357.2	$7,000	$35	$195	24.4%	321.1	$3,700	$20	$115	34.80995	-116.19716
st23080	CA	San Bernardino	150	27.2%	357.2	$7,000	$35	$195	24.4%	321.1	$3,700	$20	$115	34.83095	-116.19716
st23099	CA	San Bernardino	150	27.0%	354.8	$7,000	$35	$196	24.2%	318.4	$3,700	$20	$116	34.72598	-116.17292
st23112	CA	San Bernardino	150	26.9%	353.9	$7,000	$35	$197	24.2%	318.0	$3,700	$20	$117	34.99918	-116.17292
st23135	CA	San Bernardino	150	27.0%	355.2	$7,002	$35	$196	24.3%	319.2	$3,702	$20	$116	34.97813	-116.14868
st23136	CA	San Bernardino	150	26.9%	353.9	$7,000	$35	$197	24.2%	318.0	$3,700	$20	$117	34.99918	-116.14868
st23143	CA	San Bernardino	150	27.1%	355.9	$7,001	$35	$196	24.3%	318.8	$3,701	$20	$116	34.6421	-116.12444
st23160	CA	San Bernardino	150	26.9%	353.9	$7,001	$35	$197	24.2%	318.0	$3,701	$20	$117	34.99918	-116.12444
st23167	CA	San Bernardino	150	27.1%	355.9	$7,000	$35	$196	24.3%	318.8	$3,700	$20	$116	34.6421	-116.10019
st23261	CA	San Bernardino	150	27.1%	356.0	$7,001	$35	$196	24.3%	318.9	$3,701	$20	$116	34.60019	-116.00323
st23262	CA	San Bernardino	150	27.1%	356.0	$7,001	$35	$196	24.3%	318.9	$3,701	$20	$116	34.62115	-116.00323
st23283	CA	San Bernardino	150	26.9%	352.9	$7,002	$35	$197	24.0%	316.0	$3,702	$20	$117	34.55831	-115.97898
st23284	CA	San Bernardino	150	26.9%	352.9	$7,003	$35	$197	24.0%	316.0	$3,703	$20	$117	34.57925	-115.97898
st23285	CA	San Bernardino	150	27.1%	356.6	$7,001	$35	$195	24.3%	319.9	$3,701	$20	$116	34.60019	-115.97898
st23286	CA	San Bernardino	150	27.1%	356.6	$7,000	$35	$195	24.3%	319.9	$3,700	$20	$116	34.62115	-115.97898
st23307	CA	San Bernardino	150	26.9%	352.9	$7,001	$35	$197	24.0%	316.0	$3,701	$20	$117	34.55831	-115.95474
st23308	CA	San Bernardino	150	26.9%	352.9	$7,002	$35	$197	24.0%	316.0	$3,702	$20	$117	34.57925	-115.95474
st23309	CA	San Bernardino	150	27.1%	356.6	$7,000	$35	$195	24.3%	319.9	$3,700	$20	$116	34.60019	-115.95474
st23331	CA	San Bernardino	150	26.9%	352.9	$7,000	$35	$197	24.0%	316.0	$3,700	$20	$117	34.55831	-115.9305
st23332	CA	San Bernardino	150	26.9%	352.9	$7,001	$35	$197	24.0%	316.0	$3,701	$20	$117	34.57925	-115.9305
st23333	CA	San Bernardino	150	27.1%	356.6	$7,000	$35	$195	24.3%	319.9	$3,700	$20	$116	34.60019	-115.9305
st23355	CA	San Bernardino	150	26.9%	352.9	$7,001	$35	$197	24.0%	316.0	$3,701	$20	$117	34.55831	-115.90626

				Base Case One-Axis Tracking Crystalline Solar PV					Sensitivity Case 20 Degree Fixed Tilt Thin Film Solar PV						
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
st23356	CA	San Bernardino	150	26.9%	352.9	$7,001	$35	$197	24.0%	316.0	$3,701	$20	$117	34.57925	-115.90626
st23357	CA	San Bernardino	150	27.1%	356.6	$7,001	$35	$195	24.3%	319.9	$3,701	$20	$116	34.60019	-115.90626
st23361	CA	San Bernardino	150	27.1%	356.6	$7,004	$35	$195	24.3%	319.9	$3,704	$20	$116	34.68404	-115.90626
st23379	CA	San Bernardino	150	26.5%	348.6	$7,000	$35	$200	23.7%	311.4	$3,700	$20	$119	34.55831	-115.88202
st23380	CA	San Bernardino	150	26.5%	348.6	$7,000	$35	$200	23.7%	311.4	$3,700	$20	$119	34.57925	-115.88202
st23381	CA	San Bernardino	150	26.8%	352.2	$7,000	$35	$198	24.0%	315.5	$3,700	$20	$117	34.60019	-115.88202
st23382	CA	San Bernardino	150	26.8%	352.2	$7,001	$35	$198	24.0%	315.5	$3,701	$20	$118	34.62115	-115.88202
st23403	CA	San Bernardino	150	26.5%	348.6	$7,002	$35	$200	23.7%	311.4	$3,702	$20	$119	34.55831	-115.85777
st23404	CA	San Bernardino	150	26.5%	348.6	$7,000	$35	$200	23.7%	311.4	$3,700	$20	$119	34.57925	-115.85777
st23405	CA	San Bernardino	150	26.8%	352.2	$7,000	$35	$198	24.0%	315.5	$3,700	$20	$117	34.60019	-115.85777
st23406	CA	San Bernardino	150	26.8%	352.2	$7,001	$35	$198	24.0%	315.5	$3,701	$20	$118	34.62115	-115.85777
st23427	CA	San Bernardino	150	26.5%	348.6	$7,001	$35	$200	23.7%	311.4	$3,701	$20	$119	34.55831	-115.83353
st23428	CA	San Bernardino	150	26.5%	348.6	$7,000	$35	$200	23.7%	311.4	$3,700	$20	$119	34.57925	-115.83353
st23429	CA	San Bernardino	150	26.8%	352.2	$7,001	$35	$198	24.0%	315.5	$3,701	$20	$118	34.60019	-115.83353
st23430	CA	San Bernardino	150	26.8%	352.2	$7,000	$35	$198	24.0%	315.5	$3,700	$20	$117	34.62115	-115.83353
st23431	CA	San Bernardino	150	26.8%	352.2	$7,000	$35	$198	24.0%	315.5	$3,700	$20	$117	34.6421	-115.83353
st23432	CA	San Bernardino	150	26.8%	352.2	$7,001	$35	$198	24.0%	315.5	$3,701	$20	$118	34.66306	-115.83353
st23451	CA	San Bernardino	150	26.5%	348.6	$7,001	$35	$200	23.7%	311.4	$3,701	$20	$119	34.55831	-115.80929
st23452	CA	San Bernardino	150	26.5%	348.6	$7,000	$35	$200	23.7%	311.4	$3,700	$20	$119	34.57925	-115.80929
st23453	CA	San Bernardino	150	26.8%	352.2	$7,002	$35	$198	24.0%	315.5	$3,702	$20	$118	34.60019	-115.80929
st23454	CA	San Bernardino	150	26.8%	352.2	$7,001	$35	$198	24.0%	315.5	$3,701	$20	$118	34.62115	-115.80929
st23455	CA	San Bernardino	150	26.8%	352.2	$7,000	$35	$198	24.0%	315.5	$3,700	$20	$117	34.6421	-115.80929
st23456	CA	San Bernardino	150	26.8%	352.2	$7,000	$35	$198	24.0%	315.5	$3,700	$20	$117	34.66306	-115.80929
st23473	CA	San Bernardino	150	26.6%	349.5	$7,002	$35	$199	23.8%	312.2	$3,702	$20	$119	34.51645	-115.78505
st23476	CA	San Bernardino	150	26.6%	349.5	$7,000	$35	$199	23.8%	312.2	$3,700	$20	$119	34.57925	-115.78505
st23477	CA	San Bernardino	150	26.9%	353.2	$7,002	$35	$197	24.1%	316.1	$3,702	$20	$117	34.60019	-115.78505
st23478	CA	San Bernardino	150	26.9%	353.2	$7,002	$35	$197	24.1%	316.1	$3,702	$20	$117	34.62115	-115.78505
st23479	CA	San Bernardino	150	26.9%	353.2	$7,002	$35	$197	24.1%	316.1	$3,702	$20	$117	34.6421	-115.78505
st23480	CA	San Bernardino	150	26.9%	353.2	$7,001	$35	$197	24.1%	316.1	$3,701	$20	$117	34.66306	-115.78505
st23497	CA	San Bernardino	150	26.6%	349.5	$7,000	$35	$199	23.8%	312.2	$3,700	$20	$119	34.51645	-115.76081
st23498	CA	San Bernardino	150	26.6%	349.5	$7,001	$35	$199	23.8%	312.2	$3,701	$20	$119	34.53738	-115.76081
st23521	CA	San Bernardino	150	26.6%	349.5	$7,001	$35	$199	23.8%	312.2	$3,701	$20	$119	34.51645	-115.73657
st23522	CA	San Bernardino	150	26.6%	349.5	$7,001	$35	$199	23.8%	312.2	$3,701	$20	$119	34.53738	-115.73657
st23523	CA	San Bernardino	150	26.6%	349.5	$7,000	$35	$199	23.8%	312.2	$3,700	$20	$119	34.55831	-115.73657
st23546	CA	San Bernardino	150	26.6%	349.5	$7,001	$35	$199	23.8%	312.2	$3,701	$20	$119	34.53738	-115.71232
st23547	CA	San Bernardino	150	26.6%	349.5	$7,000	$35	$199	23.8%	312.2	$3,700	$20	$119	34.55831	-115.71232
st23569	CA	San Bernardino	150	26.6%	349.5	$7,001	$35	$199	23.8%	312.2	$3,701	$20	$119	34.51645	-115.68808
st23570	CA	San Bernardino	150	26.6%	349.5	$7,000	$35	$199	23.8%	312.2	$3,700	$20	$119	34.53738	-115.68808
st23571	CA	San Bernardino	150	26.6%	349.5	$7,000	$35	$199	23.8%	312.2	$3,700	$20	$119	34.55831	-115.68808
st23593	CA	San Bernardino	150	26.7%	350.9	$7,000	$35	$198	23.9%	314.2	$3,700	$20	$118	34.51645	-115.66384
st23594	CA	San Bernardino	150	26.7%	350.9	$7,000	$35	$198	23.9%	314.2	$3,700	$20	$118	34.53738	-115.66384
st23617	CA	San Bernardino	150	26.7%	350.9	$7,001	$35	$198	23.9%	314.2	$3,701	$20	$118	34.51645	-115.6396
st23618	CA	San Bernardino	150	26.7%	350.9	$7,000	$35	$198	23.9%	314.2	$3,700	$20	$118	34.53738	-115.6396
st23619	CA	San Bernardino	150	26.7%	350.9	$7,000	$35	$198	23.9%	314.2	$3,700	$20	$118	34.55831	-115.6396
st23641	CA	San Bernardino	150	26.7%	350.9	$7,001	$35	$198	23.9%	314.2	$3,701	$20	$118	34.51645	-115.61536
st23642	CA	San Bernardino	150	26.7%	350.9	$7,001	$35	$198	23.9%	314.2	$3,701	$20	$118	34.53738	-115.61536
st23643	CA	San Bernardino	150	26.7%	350.9	$7,000	$35	$198	23.9%	314.2	$3,700	$20	$118	34.55831	-115.61536
st23665	CA	San Bernardino	150	26.7%	350.9	$7,001	$35	$198	23.9%	314.2	$3,701	$20	$118	34.51645	-115.59111
st23666	CA	San Bernardino	150	26.7%	350.9	$7,001	$35	$198	23.9%	314.2	$3,701	$20	$118	34.53738	-115.59111
st23667	CA	San Bernardino	150	26.7%	350.9	$7,000	$35	$198	23.9%	314.2	$3,700	$20	$118	34.55831	-115.59111
st23690	CA	San Bernardino	150	26.9%	353.9	$7,000	$35	$197	24.2%	317.6	$3,700	$20	$117	34.53738	-115.56687
st23691	CA	San Bernardino	150	26.9%	353.9	$7,000	$35	$197	24.2%	317.6	$3,700	$20	$117	34.55831	-115.56687
st23713	CA	San Bernardino	150	26.9%	353.9	$7,000	$35	$197	24.2%	317.6	$3,700	$20	$117	34.51645	-115.54263
st23714	CA	San Bernardino	150	26.9%	353.9	$7,000	$35	$197	24.2%	317.6	$3,700	$20	$117	34.53738	-115.54263
st23715	CA	San Bernardino	150	26.9%	353.9	$7,000	$35	$197	24.2%	317.6	$3,700	$20	$117	34.55831	-115.54263
st23738	CA	San Bernardino	150	26.9%	353.9	$7,000	$35	$197	24.2%	317.6	$3,700	$20	$117	34.53738	-115.51839
st23761	CA	San Bernardino	150	26.9%	353.9	$7,000	$35	$197	24.2%	317.6	$3,700	$20	$117	34.51645	-115.49415
st23809	CA	San Bernardino	150	26.8%	352.1	$7,001	$35	$198	24.0%	315.6	$3,701	$20	$117	34.51645	-115.44566
st24403	CA	San Bernardino	150	27.1%	356.0	$7,001	$35	$196	24.3%	319.7	$3,701	$20	$116	34.894	-114.86386
st24427	CA	San Bernardino	150	27.1%	356.0	$7,000	$35	$196	24.3%	319.7	$3,700	$20	$116	34.894	-114.83962
st24451	CA	San Bernardino	150	27.1%	356.0	$7,000	$35	$196	24.3%	319.7	$3,700	$20	$116	34.894	-114.81537
st24452	CA	San Bernardino	150	27.1%	356.0	$7,000	$35	$196	24.3%	319.7	$3,700	$20	$116	34.91503	-114.81537
st24475	CA	San Bernardino	150	27.1%	356.0	$7,000	$35	$196	24.3%	319.7	$3,700	$20	$116	34.894	-114.79113
st24476	CA	San Bernardino	150	27.1%	356.0	$7,001	$35	$196	24.3%	319.7	$3,701	$20	$116	34.91503	-114.79113
st24498	CA	San Bernardino	150	26.6%	349.8	$7,001	$35	$199	23.8%	312.9	$3,701	$20	$118	34.87298	-114.76689
st24587	CA	San Bernardino	150	26.7%	351.3	$7,002	$35	$198	23.9%	314.7	$3,702	$20	$118	34.72598	-114.66993
st24588	CA	San Bernardino	150	26.7%	351.3	$7,000	$35	$198	23.9%	314.7	$3,700	$20	$118	34.74696	-114.66993
st24611	CA	San Bernardino	150	26.7%	351.3	$7,003	$35	$198	23.9%	314.7	$3,703	$20	$118	34.72598	-114.64568
st24612	CA	San Bernardino	150	26.7%	351.3	$7,001	$35	$198	23.9%	314.7	$3,701	$20	$118	34.74696	-114.64568
st24613	CA	San Bernardino	150	26.7%	351.3	$7,000	$35	$198	23.9%	314.7	$3,700	$20	$118	34.76795	-114.64568
st24634	CA	San Bernardino	150	26.7%	351.3	$7,000	$35	$198	23.9%	314.7	$3,700	$20	$118	34.70501	-114.62144
st24635	CA	San Bernardino	150	26.7%	351.3	$7,001	$35	$198	23.9%	314.7	$3,701	$20	$118	34.72598	-114.62144
st24636	CA	San Bernardino	150	26.7%	351.3	$7,000	$35	$198	23.9%	314.7	$3,700	$20	$118	34.74696	-114.62144
st24637	CA	San Bernardino	150	26.7%	351.3	$7,000	$35	$198	23.9%	314.7	$3,700	$20	$118	34.76795	-114.62144
st24638	CA	San Bernardino	150	26.7%	351.3	$7,000	$35	$198	23.9%	314.7	$3,700	$20	$118	34.78895	-114.62144
st24639	CA	San Bernardino	150	26.6%	349.7	$7,001	$35	$199	23.8%	313.1	$3,701	$20	$118	34.80995	-114.62144
st24658	CA	San Bernardino	150	26.7%	351.3	$7,001	$35	$198	23.9%	314.7	$3,701	$20	$118	34.70501	-114.5972
st24659	CA	San Bernardino	150	26.7%	351.3	$7,001	$35	$198	23.9%	314.7	$3,701	$20	$118	34.72598	-114.5972
st24683	CA	San Bernardino	150	26.6%	350.0	$7,000	$35	$199	23.9%	313.7	$3,700	$20	$118	34.72598	-114.57296
st24707	CA	San Bernardino	150	26.6%	350.0	$7,000	$35	$199	23.9%	313.7	$3,700	$20	$118	34.72598	-114.54872
st28609	CA	San Bernardino	150	27.4%	359.8	$7,000	$35	$193	24.6%	322.7	$3,700	$20	$115	35.02023	-117.60319
st28610	CA	San Bernardino	150	27.4%	359.8	$7,000	$35	$193	24.6%	322.7	$3,700	$20	$115	35.04129	-117.60319
st28634	CA	San Bernardino	150	27.7%	364.4	$7,000	$35	$191	24.9%	327.4	$3,700	$20	$113	35.04129	-117.57895
st28921	CA	San Bernardino	150	27.7%	363.7	$7,000	$35	$191	24.9%	327.3	$3,700	$20	$113	35.02023	-117.28805
st28922	CA	San Bernardino	150	27.7%	363.7	$7,001	$35	$191	24.9%	327.3	$3,701	$20	$113	35.04129	-117.28805
st28923	CA	San Bernardino	150	27.7%	363.7	$7,000	$35	$191	24.9%	327.3	$3,700	$20	$113	35.06236	-117.28805
st28945	CA	San Bernardino	150	27.1%	356.4	$7,000	$35	$195	24.3%	319.1	$3,700	$20	$116	35.02023	-117.2638
st28946	CA	San Bernardino	150	27.1%	356.4	$7,000	$35	$195	24.3%	319.1	$3,700	$20	$116	35.04129	-117.2638
st28947	CA	San Bernardino	150	27.1%	356.4	$7,000	$35	$195	24.3%	319.1	$3,700	$20	$116	35.06236	-117.2638
st28969	CA	San Bernardino	150	27.1%	356.4	$7,000	$35	$195	24.3%	319.1	$3,700	$20	$116	35.02023	-117.23956
st28970	CA	San Bernardino	150	27.1%	356.4	$7,000	$35	$195	24.3%	319.1	$3,700	$20	$116	35.04129	-117.23956
st28993	CA	San Bernardino	150	27.1%	356.4	$7,000	$35	$195	24.3%	319.1	$3,700	$20	$116	35.02023	-117.21532
st28994	CA	San Bernardino	150	27.1%	356.4	$7,000	$35	$195	24.3%	319.1	$3,700	$20	$116	35.04129	-117.21532

				Base Case **One-Axis Tracking Crystalline Solar PV**					**Sensitivity Case** **20 Degree Fixed Tilt Thin Film Solar PV**						
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
stm29171	CA	San Bernardino	150	27.1%	355.7	$7,000	$35	$196	24.4%	320.0	$3,700	$20	$116	35.23106	-117.04563
stm29582	CA	San Bernardino	150	27.0%	354.7	$7,001	$35	$196	24.2%	318.5	$3,701	$20	$116	35.29441	-116.63351
st29906	CA	San Bernardino	150	26.8%	352.8	$7,000	$35	$197	24.1%	316.4	$3,700	$20	$117	35.04129	-116.29413
st29930	CA	San Bernardino	150	26.7%	351.3	$7,001	$35	$198	24.0%	315.5	$3,701	$20	$118	35.04129	-116.26989
st29932	CA	San Bernardino	150	26.7%	351.3	$7,000	$35	$198	24.0%	315.5	$3,700	$20	$117	35.08342	-116.26989
st29954	CA	San Bernardino	150	26.7%	351.3	$7,000	$35	$198	24.0%	315.5	$3,700	$20	$117	35.04129	-116.24565
st29956	CA	San Bernardino	150	26.7%	351.3	$7,002	$35	$198	24.0%	315.5	$3,702	$20	$118	35.08342	-116.24565
st29978	CA	San Bernardino	150	26.7%	351.3	$7,000	$35	$198	24.0%	315.5	$3,700	$20	$117	35.04129	-116.2214
st29982	CA	San Bernardino	150	26.6%	349.3	$7,000	$35	$199	23.8%	312.2	$3,700	$20	$119	35.12558	-116.2214
st30001	CA	San Bernardino	150	26.7%	351.3	$7,000	$35	$198	24.0%	315.5	$3,700	$20	$117	35.02023	-116.19716
st30002	CA	San Bernardino	150	26.7%	351.3	$7,000	$35	$198	24.0%	315.5	$3,700	$20	$117	35.04129	-116.19716
st30003	CA	San Bernardino	150	26.7%	351.3	$7,001	$35	$198	24.0%	315.5	$3,701	$20	$117	35.06236	-116.19716
st30006	CA	San Bernardino	150	26.6%	349.3	$7,001	$35	$199	23.8%	312.2	$3,701	$20	$119	35.12558	-116.19716
st30007	CA	San Bernardino	150	26.6%	349.3	$7,000	$35	$199	23.8%	312.2	$3,700	$20	$119	35.14666	-116.19716
st30027	CA	San Bernardino	150	26.9%	353.9	$7,000	$35	$197	24.2%	318.0	$3,700	$20	$117	35.06236	-116.17292
st30030	CA	San Bernardino	150	26.8%	352.2	$7,001	$35	$198	24.0%	315.9	$3,701	$20	$117	35.12558	-116.17292
st30031	CA	San Bernardino	150	26.8%	352.2	$7,001	$35	$198	24.0%	315.9	$3,701	$20	$117	35.14666	-116.17292
st30032	CA	San Bernardino	150	26.8%	352.2	$7,000	$35	$198	24.0%	315.9	$3,700	$20	$117	35.16776	-116.17292
st30070	CA	San Bernardino	150	26.6%	350.1	$7,001	$35	$199	23.9%	314.3	$3,701	$20	$118	35.4636	-116.14868
st30071	CA	San Bernardino	150	26.6%	350.1	$7,000	$35	$199	23.9%	314.3	$3,700	$20	$118	35.48478	-116.14868
st30072	CA	San Bernardino	150	26.8%	352.3	$7,001	$35	$198	24.1%	316.7	$3,701	$20	$117	35.50596	-116.14868
st30094	CA	San Bernardino	150	26.6%	350.1	$7,001	$35	$199	23.9%	314.3	$3,701	$20	$118	35.4636	-116.12444
st30095	CA	San Bernardino	150	26.6%	350.1	$7,001	$35	$199	23.9%	314.3	$3,701	$20	$118	35.48478	-116.12444
st30096	CA	San Bernardino	150	26.8%	352.3	$7,000	$35	$198	24.1%	316.7	$3,700	$20	$117	35.50596	-116.12444
st30117	CA	San Bernardino	150	26.6%	350.1	$7,003	$35	$199	23.9%	314.3	$3,703	$20	$118	35.44244	-116.10019
st30118	CA	San Bernardino	150	26.6%	350.1	$7,001	$35	$199	23.9%	314.3	$3,701	$20	$118	35.4636	-116.10019
st30119	CA	San Bernardino	150	26.6%	350.1	$7,001	$35	$199	23.9%	314.3	$3,701	$20	$118	35.48478	-116.10019
st30120	CA	San Bernardino	150	26.8%	352.3	$7,000	$35	$198	24.1%	316.7	$3,700	$20	$117	35.50596	-116.10019
st30134	CA	San Bernardino	150	26.7%	350.9	$7,000	$35	$198	24.0%	315.2	$3,700	$20	$118	35.29441	-116.07595
st30142	CA	San Bernardino	150	26.9%	354.0	$7,000	$35	$197	24.2%	318.0	$3,700	$20	$117	35.4636	-116.07595
st30143	CA	San Bernardino	150	26.9%	354.0	$7,001	$35	$197	24.2%	318.0	$3,701	$20	$117	35.48478	-116.07595
st31067	CA	San Bernardino	150	27.2%	356.8	$7,001	$35	$195	24.4%	320.8	$3,701	$20	$116	35.23106	-115.13052
st31068	CA	San Bernardino	150	27.2%	356.8	$7,001	$35	$195	24.4%	320.8	$3,701	$20	$116	35.25217	-115.13052
st31069	CA	San Bernardino	150	27.2%	356.8	$7,000	$35	$195	24.4%	320.8	$3,700	$20	$116	35.27329	-115.13052
st31093	CA	San Bernardino	150	27.2%	356.8	$7,000	$35	$195	24.4%	320.8	$3,700	$20	$116	35.27329	-115.10628
st31094	CA	San Bernardino	150	27.0%	354.7	$7,000	$35	$196	24.3%	319.0	$3,700	$20	$116	35.29441	-115.10628
st35523	CA	San Bernardino	150	27.4%	360.7	$7,002	$35	$193	24.7%	325.1	$3,702	$20	$114	35.52715	-117.45774
st35546	CA	San Bernardino	150	27.4%	360.7	$7,002	$35	$193	24.7%	325.1	$3,702	$20	$114	35.52715	-117.4335
st35648	CA	San Bernardino	150	26.6%	349.2	$7,000	$35	$199	23.8%	312.9	$3,700	$20	$118	35.7393	-117.33653
st35671	CA	San Bernardino	150	26.6%	349.2	$7,000	$35	$199	23.8%	312.9	$3,700	$20	$118	35.7393	-117.31229
st35691	CA	San Bernardino	150	27.0%	355.2	$7,001	$35	$196	24.3%	318.9	$3,701	$20	$116	35.6756	-117.28805
st36724	CA	San Bernardino	150	26.3%	345.3	$7,004	$35	$202	23.6%	309.8	$3,704	$20	$120	35.63315	-116.19716
st36725	CA	San Bernardino	150	26.3%	345.3	$7,004	$35	$202	23.6%	309.8	$3,704	$20	$120	35.65437	-116.19716
st36726	CA	San Bernardino	150	26.3%	345.3	$7,004	$35	$202	23.6%	309.8	$3,704	$20	$120	35.6756	-116.19716
st36748	CA	San Bernardino	150	27.0%	354.4	$7,006	$35	$197	24.3%	318.9	$3,706	$20	$116	35.65437	-116.17292
st37259	CA	San Bernardino	150	26.8%	351.7	$7,000	$35	$198	24.1%	316.2	$3,700	$20	$117	35.76055	-115.6396
st37280	CA	San Bernardino	150	26.8%	351.7	$7,001	$35	$198	24.1%	316.2	$3,701	$20	$117	35.71806	-115.61536
st37281	CA	San Bernardino	150	26.8%	351.7	$7,000	$35	$198	24.1%	316.2	$3,700	$20	$117	35.7393	-115.61536
st37282	CA	San Bernardino	150	26.8%	351.7	$7,000	$35	$198	24.1%	316.2	$3,700	$20	$117	35.76055	-115.61536
st37283	CA	San Bernardino	150	26.8%	351.7	$7,000	$35	$198	24.1%	316.2	$3,700	$20	$117	35.7818	-115.61536
st37303	CA	San Bernardino	150	26.8%	351.7	$7,001	$35	$198	24.1%	316.2	$3,701	$20	$117	35.71806	-115.59111
st37304	CA	San Bernardino	150	26.8%	351.7	$7,001	$35	$198	24.1%	316.2	$3,701	$20	$117	35.7393	-115.59111
st37305	CA	San Bernardino	150	26.8%	351.7	$7,000	$35	$198	24.1%	316.2	$3,700	$20	$117	35.76055	-115.59111
st37326	CA	San Bernardino	150	26.5%	347.9	$7,001	$35	$200	23.7%	311.6	$3,701	$20	$119	35.71806	-115.56687
st37327	CA	San Bernardino	150	26.5%	347.9	$7,000	$35	$200	23.7%	311.6	$3,700	$20	$119	35.7393	-115.56687
st37328	CA	San Bernardino	150	26.5%	347.9	$7,000	$35	$200	23.7%	311.6	$3,700	$20	$119	35.76055	-115.56687
st37348	CA	San Bernardino	150	26.5%	347.9	$7,001	$35	$200	23.7%	311.6	$3,701	$20	$119	35.69683	-115.54263
st37349	CA	San Bernardino	150	26.5%	347.9	$7,000	$35	$200	23.7%	311.6	$3,700	$20	$119	35.71806	-115.54263
st37350	CA	San Bernardino	150	26.5%	347.9	$7,000	$35	$200	23.7%	311.6	$3,700	$20	$119	35.7393	-115.54263
st37370	CA	San Bernardino	150	26.9%	353.9	$7,000	$35	$197	24.2%	318.2	$3,700	$20	$116	35.6756	-115.51839
st37371	CA	San Bernardino	150	26.5%	347.9	$7,000	$35	$200	23.7%	311.6	$3,700	$20	$119	35.69683	-115.51839
st37372	CA	San Bernardino	150	26.5%	347.9	$7,000	$35	$200	23.7%	311.6	$3,700	$20	$119	35.71806	-115.51839
st37387	CA	San Bernardino	150	26.7%	351.3	$7,000	$35	$198	24.0%	315.0	$3,700	$20	$118	35.54834	-115.49415
st37388	CA	San Bernardino	150	26.7%	351.3	$7,001	$35	$198	24.0%	315.0	$3,701	$20	$118	35.56953	-115.49415
st37394	CA	San Bernardino	150	26.5%	347.9	$7,000	$35	$200	23.7%	311.6	$3,700	$20	$119	35.69683	-115.49415
st37410	CA	San Bernardino	150	26.9%	353.9	$7,000	$35	$197	24.2%	318.6	$3,700	$20	$116	35.54834	-115.46991
st37411	CA	San Bernardino	150	26.9%	353.9	$7,000	$35	$197	24.2%	318.6	$3,700	$20	$116	35.56953	-115.46991
st37432	CA	San Bernardino	150	26.9%	353.9	$7,001	$35	$197	24.2%	318.6	$3,701	$20	$116	35.52715	-115.44566
st37433	CA	San Bernardino	150	26.9%	353.9	$7,000	$35	$197	24.2%	318.6	$3,700	$20	$116	35.54834	-115.44566
st37434	CA	San Bernardino	150	26.9%	353.9	$7,000	$35	$197	24.2%	318.6	$3,700	$20	$116	35.56953	-115.44566
st37435	CA	San Bernardino	150	26.9%	353.9	$7,000	$35	$197	24.2%	318.6	$3,700	$20	$116	35.59073	-115.44566
st37455	CA	San Bernardino	150	26.9%	353.9	$7,000	$35	$197	24.2%	318.6	$3,700	$20	$116	35.52715	-115.42142
st37456	CA	San Bernardino	150	26.9%	353.9	$7,000	$35	$197	24.2%	318.6	$3,700	$20	$116	35.54834	-115.42142
st37457	CA	San Bernardino	150	26.9%	353.9	$7,000	$35	$197	24.2%	318.6	$3,700	$20	$116	35.56953	-115.42142
st37458	CA	San Bernardino	150	26.9%	353.9	$7,000	$35	$197	24.2%	318.6	$3,700	$20	$116	35.59073	-115.42142
st37480	CA	San Bernardino	150	26.9%	353.9	$7,001	$35	$197	24.2%	318.6	$3,701	$20	$116	35.56953	-115.39718
st37504	CA	San Bernardino	150	26.3%	346.1	$7,000	$35	$201	23.7%	311.2	$3,700	$20	$119	35.59073	-115.37294
st37505	CA	San Bernardino	150	26.5%	348.1	$7,000	$35	$200	23.9%	313.4	$3,700	$20	$118	35.61194	-115.37294
st37526	CA	San Bernardino	150	26.3%	346.1	$7,001	$35	$201	23.7%	311.2	$3,701	$20	$119	35.56953	-115.3487
st37527	CA	San Bernardino	150	26.3%	346.1	$7,002	$35	$201	23.7%	311.2	$3,702	$20	$119	35.59073	-115.3487
st37549	CA	San Bernardino	150	26.3%	346.1	$7,003	$35	$201	23.7%	311.2	$3,703	$20	$119	35.56953	-115.32446
st17290	CA	San Bernardino	150	27.1%	355.6	$7,000	$35	$196	24.2%	318.4	$3,700	$20	$116	34.20312	-115.03355
st17384	CA	San Bernardino	150	27.1%	355.6	$7,000	$35	$196	24.3%	319.4	$3,700	$20	$116	34.16143	-114.93658
st17358	CA	San Bernardino	150	27.1%	355.6	$7,001	$35	$196	24.3%	319.4	$3,701	$20	$116	34.11977	-114.96083
st17334	CA	San Bernardino	150	27.1%	355.6	$7,002	$35	$196	24.3%	319.4	$3,702	$20	$116	34.11977	-114.98507
st17313	CA	San Bernardino	150	27.2%	356.8	$7,000	$35	$195	24.4%	320.1	$3,700	$20	$116	34.18228	-115.00931
st17410	CA	San Bernardino	150	27.2%	357.9	$7,003	$35	$195	24.4%	321.2	$3,703	$20	$115	34.20312	-114.91234
st17314	CA	San Bernardino	150	27.1%	355.6	$7,001	$35	$196	24.2%	318.4	$3,701	$20	$116	34.20312	-115.00931
st17338	CA	San Bernardino	150	27.2%	357.9	$7,002	$35	$195	24.4%	321.2	$3,702	$20	$115	34.20312	-114.98507
st17385	CA	San Bernardino	150	27.1%	355.6	$7,001	$35	$196	24.3%	319.4	$3,701	$20	$116	34.18228	-114.93658
st17361	CA	San Bernardino	150	27.1%	355.6	$7,001	$35	$196	24.3%	319.4	$3,701	$20	$116	34.18228	-114.96083
st17337	CA	San Bernardino	150	27.1%	355.6	$7,001	$35	$196	24.3%	319.4	$3,701	$20	$116	34.18228	-114.98507
st17336	CA	San Bernardino	150	27.1%	355.6	$7,000	$35	$196	24.3%	319.4	$3,700	$20	$116	34.16143	-114.98507

			Base Case One-Axis Tracking Crystalline Solar PV						Sensitivity Case 20 Degree Fixed Tilt Thin Film Solar PV						
Project ID	**State**	**County**	**MW**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**CF, %**	**Generation, GWh/yr**	**Capital Cost, $/kWac**	**Fixed O&M, $/kWac-yr**	**LCOE, $/MWh**	**Lat**	**Long**
st17383	CA	San Bernardino	150	27.1%	355.6	$7,000	$35	$196	24.3%	319.4	$3,700	$20	$116	34.1406	-114.93659
st17360	CA	San Bernardino	150	27.1%	355.6	$7,001	$35	$196	24.3%	319.4	$3,701	$20	$116	34.16144	-114.96083
st17335	CA	San Bernardino	150	27.1%	355.6	$7,001	$35	$196	24.3%	319.4	$3,701	$20	$116	34.1406	-114.98507
st17359	CA	San Bernardino	150	27.1%	355.6	$7,000	$35	$196	24.3%	319.4	$3,700	$20	$116	34.1406	-114.96083
st17386	CA	San Bernardino	150	27.2%	357.9	$7,002	$35	$195	24.4%	321.2	$3,702	$20	$115	34.20312	-114.93658
st17362	CA	San Bernardino	150	27.2%	357.9	$7,002	$35	$195	24.4%	321.2	$3,702	$20	$115	34.20312	-114.96083
st4764	CA	San Diego	150	26.5%	347.6	$7,000	$35	$200	23.6%	310.0	$3,700	$20	$120	33.2494	-116.682
st4788	CA	San Diego	150	26.5%	347.6	$7,000	$35	$200	23.6%	310.0	$3,700	$20	$120	33.2494	-116.65776
st4924	CA	San Diego	150	26.5%	348.8	$7,000	$35	$200	23.5%	309.3	$3,700	$20	$120	33.0846	-116.51231
st5078	CA	San Diego	150	27.0%	355.0	$7,000	$35	$196	24.2%	317.3	$3,700	$20	$117	33.29065	-116.36686
st5123	CA	San Diego	150	26.8%	352.1	$7,000	$35	$198	23.9%	313.8	$3,700	$20	$118	33.22878	-116.31837
st5125	CA	San Diego	150	26.8%	352.1	$7,001	$35	$198	23.9%	313.8	$3,701	$20	$118	33.27002	-116.31837
st5149	CA	San Diego	150	26.8%	352.1	$7,000	$35	$198	23.9%	313.8	$3,700	$20	$118	33.27002	-116.29413
st25628	CA	San Luis Obispo	150	25.4%	333.3	$7,000	$35	$209	22.5%	296.2	$3,700	$20	$125	35.42128	-120.63342
st25749	CA	San Luis Obispo	150	25.4%	333.7	$7,000	$35	$209	22.5%	296.3	$3,700	$20	$125	35.44244	-120.51221
st25771	CA	San Luis Obispo	150	25.4%	333.7	$7,000	$35	$209	22.5%	296.3	$3,700	$20	$125	35.40012	-120.48797
st25772	CA	San Luis Obispo	150	25.4%	333.7	$7,001	$35	$209	22.5%	296.3	$3,701	$20	$125	35.42128	-120.48797
st25968	CA	San Luis Obispo	150	25.6%	336.2	$7,000	$35	$207	22.7%	298.7	$3,700	$20	$124	35.50596	-120.29404
st25992	CA	San Luis Obispo	150	25.7%	337.1	$7,000	$35	$207	22.8%	299.1	$3,700	$20	$124	35.50596	-120.26979
st26013	CA	San Luis Obispo	150	25.7%	337.7	$7,000	$35	$206	22.8%	299.0	$3,700	$20	$124	35.44244	-120.24555
st26133	CA	San Luis Obispo	150	25.7%	337.7	$7,000	$35	$206	22.7%	298.8	$3,700	$20	$124	35.44244	-120.12434
st26134	CA	San Luis Obispo	150	25.7%	337.7	$7,000	$35	$206	22.7%	298.8	$3,700	$20	$124	35.4636	-120.12434
st26154	CA	San Luis Obispo	150	25.8%	338.4	$7,000	$35	$206	22.8%	299.5	$3,700	$20	$124	35.37896	-120.1001
st26155	CA	San Luis Obispo	150	25.7%	337.7	$7,000	$35	$206	22.7%	298.8	$3,700	$20	$124	35.40012	-120.1001
st26157	CA	San Luis Obispo	150	25.7%	337.7	$7,000	$35	$206	22.7%	298.8	$3,700	$20	$124	35.44244	-120.1001
st26158	CA	San Luis Obispo	150	25.7%	337.7	$7,000	$35	$206	22.7%	298.8	$3,700	$20	$124	35.4636	-120.1001
st26177	CA	San Luis Obispo	150	25.6%	335.9	$7,001	$35	$207	22.6%	296.5	$3,701	$20	$125	35.35782	-120.07586
st26180	CA	San Luis Obispo	150	25.7%	337.4	$7,001	$35	$206	22.7%	298.3	$3,701	$20	$124	35.42128	-120.07586
st26181	CA	San Luis Obispo	150	25.7%	337.4	$7,000	$35	$206	22.7%	298.3	$3,700	$20	$124	35.44244	-120.07586
st26182	CA	San Luis Obispo	150	25.7%	337.4	$7,001	$35	$206	22.7%	298.3	$3,701	$20	$124	35.4636	-120.07586
st26183	CA	San Luis Obispo	150	25.7%	337.4	$7,000	$35	$206	22.7%	298.3	$3,700	$20	$124	35.48478	-120.07586
st26200	CA	San Luis Obispo	150	25.6%	335.9	$7,000	$35	$207	22.6%	296.5	$3,700	$20	$125	35.33668	-120.05162
st26203	CA	San Luis Obispo	150	25.7%	337.4	$7,000	$35	$206	22.7%	298.3	$3,700	$20	$124	35.40012	-120.05162
st26204	CA	San Luis Obispo	150	25.7%	337.4	$7,001	$35	$206	22.7%	298.3	$3,701	$20	$124	35.42128	-120.05162
st26206	CA	San Luis Obispo	150	25.7%	337.4	$7,001	$35	$206	22.7%	298.3	$3,701	$20	$124	35.4636	-120.05162
st26220	CA	San Luis Obispo	150	25.8%	339.4	$7,000	$35	$205	22.8%	300.2	$3,700	$20	$123	35.25217	-120.02738
st26223	CA	San Luis Obispo	150	25.6%	335.9	$7,000	$35	$207	22.6%	296.5	$3,700	$20	$125	35.31555	-120.02738
st26226	CA	San Luis Obispo	150	25.6%	335.9	$7,001	$35	$207	22.6%	296.5	$3,701	$20	$125	35.37896	-120.02738
st26243	CA	San Luis Obispo	150	25.8%	339.4	$7,000	$35	$205	22.8%	300.2	$3,700	$20	$123	35.23106	-120.00314
st26244	CA	San Luis Obispo	150	25.8%	339.4	$7,001	$35	$205	22.8%	300.2	$3,701	$20	$123	35.25217	-120.00314
st26249	CA	San Luis Obispo	150	25.6%	335.9	$7,000	$35	$207	22.6%	296.5	$3,700	$20	$125	35.35782	-120.00314
st26267	CA	San Luis Obispo	150	26.0%	342.1	$7,000	$35	$203	23.1%	303.6	$3,700	$20	$122	35.23106	-119.97889
st26273	CA	San Luis Obispo	150	25.9%	339.8	$7,000	$35	$205	23.0%	301.8	$3,700	$20	$123	35.35782	-119.97889
st26274	CA	San Luis Obispo	150	25.9%	339.8	$7,000	$35	$205	23.0%	301.8	$3,700	$20	$123	35.37896	-119.97889
st26297	CA	San Luis Obispo	150	25.9%	339.8	$7,000	$35	$205	23.0%	301.8	$3,700	$20	$123	35.35782	-119.95465
st32173	CA	San Luis Obispo	150	25.4%	333.3	$7,000	$35	$209	22.5%	296.0	$3,700	$20	$125	35.69683	-120.99705
st32488	CA	San Luis Obispo	150	25.4%	333.1	$7,000	$35	$209	22.6%	296.5	$3,700	$20	$125	35.54834	-120.65767
st32656	CA	San Luis Obispo	150	25.6%	335.9	$7,000	$35	$207	22.8%	299.1	$3,700	$20	$124	35.69683	-120.48797
st32657	CA	San Luis Obispo	150	25.6%	335.9	$7,000	$35	$207	22.8%	299.1	$3,700	$20	$124	35.71806	-120.48797
st32674	CA	San Luis Obispo	150	25.5%	335.1	$7,000	$35	$208	22.7%	298.5	$3,700	$20	$124	35.59073	-120.46373
st32742	CA	San Luis Obispo	150	25.6%	336.4	$7,001	$35	$207	22.8%	299.1	$3,701	$20	$124	35.56953	-120.391
st32743	CA	San Luis Obispo	150	25.5%	335.1	$7,000	$35	$208	22.7%	298.5	$3,700	$20	$124	35.59073	-120.391
st32750	CA	San Luis Obispo	150	25.5%	335.1	$7,000	$35	$208	22.6%	297.5	$3,700	$20	$125	35.7393	-120.391
st32751	CA	San Luis Obispo	150	25.5%	335.1	$7,000	$35	$208	22.6%	297.5	$3,700	$20	$125	35.76055	-120.391
st32832	CA	San Luis Obispo	150	25.6%	336.2	$7,000	$35	$207	22.7%	298.7	$3,700	$20	$124	35.52715	-120.29404
st32833	CA	San Luis Obispo	150	25.6%	336.2	$7,000	$35	$207	22.7%	298.7	$3,700	$20	$124	35.54834	-120.29404
st32843	CA	San Luis Obispo	150	25.3%	333.0	$7,001	$35	$209	22.5%	295.2	$3,701	$20	$126	35.76055	-120.29404
st33019	CA	San Luis Obispo	150	25.5%	334.8	$7,000	$35	$208	22.5%	295.6	$3,700	$20	$125	35.59073	-120.1001
st19139	CA	Santa Barbara	150	25.4%	334.1	$7,000	$35	$208	22.7%	298.2	$3,700	$20	$124	34.72598	-120.17283
st19140	CA	Santa Barbara	150	25.4%	334.1	$7,000	$35	$208	22.7%	298.2	$3,700	$20	$124	34.74696	-120.17283
st19141	CA	Santa Barbara	150	25.4%	334.1	$7,000	$35	$208	22.7%	298.2	$3,700	$20	$124	34.76795	-120.17283
st19165	CA	Santa Barbara	150	25.4%	334.1	$7,001	$35	$208	22.7%	298.2	$3,701	$20	$124	34.76795	-120.14858
st19232	CA	Santa Barbara	150	25.5%	334.8	$7,000	$35	$208	22.8%	299.2	$3,700	$20	$124	34.66306	-120.07586
st19257	CA	Santa Barbara	150	25.5%	334.8	$7,000	$35	$208	22.8%	299.2	$3,700	$20	$124	34.68404	-120.05162
st19676	CA	Santa Barbara	150	25.9%	339.7	$7,000	$35	$205	22.8%	300.2	$3,700	$20	$123	34.91503	-119.63951
st19818	CA	Santa Barbara	150	26.0%	341.0	$7,000	$35	$204	22.9%	300.8	$3,700	$20	$123	34.87298	-119.49405
st26305	CA	Santa Barbara	150	25.9%	340.1	$7,000	$35	$205	23.0%	301.7	$3,700	$20	$123	35.02023	-119.93041
st26306	CA	Santa Barbara	150	25.9%	340.1	$7,000	$35	$205	23.0%	301.7	$3,700	$20	$123	35.04129	-119.93041
st26353	CA	Santa Barbara	150	26.1%	343.4	$7,000	$35	$203	23.2%	305.2	$3,700	$20	$121	35.02023	-119.88193
st78618	CA	Shasta	150	23.6%	310.5	$7,000	$35	$224	21.0%	275.6	$3,700	$20	$134	40.49679	-121.77279
st78640	CA	Shasta	150	23.6%	310.5	$7,000	$35	$224	21.0%	275.6	$3,700	$20	$134	40.49679	-121.74855
st82636	CA	Shasta	150	23.0%	302.7	$7,000	$35	$230	20.3%	267.3	$3,700	$20	$139	40.815	-121.82128
st82645	CA	Shasta	150	23.1%	303.0	$7,000	$35	$230	20.3%	267.3	$3,700	$20	$139	40.51946	-121.79703
st82646	CA	Shasta	150	23.1%	303.0	$7,000	$35	$230	20.3%	267.3	$3,700	$20	$139	40.54215	-121.79703
st82668	CA	Shasta	150	23.6%	310.5	$7,000	$35	$224	21.0%	275.6	$3,700	$20	$134	40.54215	-121.77279
st82669	CA	Shasta	150	23.6%	310.5	$7,000	$35	$224	21.0%	275.6	$3,700	$20	$134	40.56485	-121.77279
st82689	CA	Shasta	150	23.6%	310.5	$7,000	$35	$224	21.0%	275.6	$3,700	$20	$134	40.51946	-121.74855
st82691	CA	Shasta	150	23.6%	310.5	$7,000	$35	$224	21.0%	275.6	$3,700	$20	$134	40.56485	-121.74855
st82713	CA	Shasta	150	23.6%	310.5	$7,000	$35	$224	21.0%	275.6	$3,700	$20	$134	40.56485	-121.72431
st82734	CA	Shasta	150	23.6%	310.5	$7,000	$35	$224	21.0%	275.6	$3,700	$20	$134	40.54215	-121.70007
st82771	CA	Shasta	150	24.0%	315.6	$7,000	$35	$221	21.4%	280.9	$3,700	$20	$132	40.88339	-121.67582
st82793	CA	Shasta	150	24.0%	315.6	$7,000	$35	$221	21.4%	280.9	$3,700	$20	$132	40.88339	-121.65158
st82794	CA	Shasta	150	23.8%	312.8	$7,000	$35	$223	21.2%	278.3	$3,700	$20	$133	40.9062	-121.65158
st82859	CA	Shasta	150	24.0%	315.3	$7,001	$35	$221	21.4%	281.4	$3,701	$20	$132	40.88339	-121.57886
st82880	CA	Shasta	150	24.0%	315.3	$7,000	$35	$221	21.4%	281.4	$3,700	$20	$132	40.86058	-121.55461
st86980	CA	Shasta	150	23.7%	311.4	$7,000	$35	$224	21.1%	276.7	$3,700	$20	$134	41.04323	-121.50613
st87024	CA	Shasta	150	23.8%	312.3	$7,000	$35	$223	21.1%	277.7	$3,700	$20	$133	41.04323	-121.45765
st87047	CA	Shasta	150	23.8%	312.3	$7,001	$35	$223	21.1%	277.7	$3,701	$20	$133	41.0661	-121.4334
st87091	CA	Shasta	150	23.8%	312.4	$7,000	$35	$223	21.2%	278.5	$3,700	$20	$133	41.0661	-121.38492
st87114	CA	Shasta	150	23.6%	310.5	$7,000	$35	$224	21.0%	276.0	$3,700	$20	$134	41.08897	-121.36068
st75765	CA	Sierra	150	24.6%	323.6	$7,000	$35	$215	21.9%	288.4	$3,700	$20	$129	39.66294	-120.41525
st86644	CA	Siskiyou	150	23.3%	306.4	$7,000	$35	$227	20.6%	270.5	$3,700	$20	$137	41.41006	-121.894
st86682	CA	Siskiyou	150	23.4%	307.2	$7,000	$35	$227	20.7%	272.4	$3,700	$20	$136	41.27226	-121.84552

Appendix E. Solar Thermal Resources

RETI Phase 1B Draft Report
Appendix E
Solar Thermal Projects

Project ID	County	Lat	Long	Type	Williamson Act Intersection	Cooling	MW	CF, %	Generation, GWh/yr	Capital Cost, $/kWac	Fixed O&M, $/kWac-yr	LCOE, $/MWh
st1500	Imperial	32.8	-116.0	Proxy		Dry	200	25.3%	443	$4,584	$66	$160
st1547	Imperial	32.7	-115.9	Pre-Existing (BLM)		Dry	200	25.3%	443	$4,634	$66	$162
st1548	Imperial	32.8	-115.9	Pre-Existing (BLM)	Yes	Dry	200	25.3%	443	$4,557	$66	$160
st1571	Imperial	32.7	-115.9	Pre-Existing (BLM)		Dry	200	25.3%	443	$4,528	$66	$159
st1572	Imperial	32.8	-115.9	Pre-Existing (BLM)		Dry	200	25.3%	443	$4,531	$66	$159
st1573	Imperial	32.8	-115.9	Pre-Existing (BLM)	Yes	Dry	200	25.3%	443	$4,532	$66	$159
st1574	Imperial	32.8	-115.9	Proxy		Dry	200	24.4%	428	$4,547	$66	$165
st1596	Imperial	32.8	-115.9	Pre-Existing (BLM)	Yes	Dry	200	25.9%	454	$4,534	$66	$155
st1597	Imperial	32.8	-115.9	Pre-Existing (BLM)	Yes	Dry	200	25.9%	454	$4,568	$66	$156
st1620	Imperial	32.8	-115.9	Pre-Existing (PPA)		Dry	200	25.9%	454	$4,612	$66	$157
st1621	Imperial	32.8	-115.9	Pre-Existing (BLM)		Dry	200	25.9%	454	$4,602	$66	$157
st1622	Imperial	32.8	-115.9	Pre-Existing (BLM)	Yes	Dry	200	25.2%	442	$4,434	$66	$157
st1623	Imperial	32.8	-115.9	Proxy		Dry	200	25.2%	442	$4,418	$66	$156
st1644	Imperial	32.8	-115.8	Pre-Existing (BLM)		Dry	200	25.9%	454	$4,672	$66	$159
st1645	Imperial	32.8	-115.8	Pre-Existing (BLM)		Dry	200	25.9%	454	$4,469	$66	$153
st1646	Imperial	32.8	-115.8	Pre-Existing (BLM)	Yes	Dry	200	25.2%	442	$4,426	$66	$156
st1648	Imperial	32.8	-115.8	Proxy		Dry	200	25.2%	442	$4,398	$66	$156
st1668	Imperial	32.8	-115.8	Pre-Existing (BLM)	Yes	Dry	200	25.9%	454	$4,493	$66	$154
st1669	Imperial	32.8	-115.8	Pre-Existing (BLM)	Yes	Dry	200	25.9%	454	$4,469	$66	$153
st1670	Imperial	32.8	-115.8	Pre-Existing (BLM)	Yes	Dry	200	25.2%	442	$4,421	$66	$156
st1671	Imperial	32.8	-115.8	Proxy		Dry	200	25.2%	442	$4,403	$66	$156
st1693	Imperial	32.8	-115.8	Pre-Existing (BLM)	Yes	Wet	200	26.3%	461	$4,257	$66	$145
st1697	Imperial	32.9	-115.8	Proxy		Wet	200	26.4%	462	$4,268	$66	$145
st1704	Imperial	33.0	-115.8	Pre-Existing (BLM)		Dry	200	25.4%	446	$4,528	$66	$158
st1727	Imperial	33.0	-115.8	Pre-Existing (BLM)		Dry	200	25.4%	445	$4,499	$66	$157
st1728	Imperial	33.0	-115.8	Pre-Existing (BLM)		Dry	200	25.4%	446	$4,537	$66	$158
st1751	Imperial	33.0	-115.7	Pre-Existing (BLM)		Dry	200	25.4%	445	$4,550	$66	$159
st1752	Imperial	33.0	-115.7	Pre-Existing (BLM)		Dry	200	25.4%	446	$4,622	$66	$160
st1774	Imperial	33.0	-115.7	Pre-Existing (BLM)		Dry	200	25.4%	445	$4,604	$66	$160
st1775	Imperial	33.0	-115.7	Pre-Existing (BLM)		Dry	200	25.4%	445	$4,543	$66	$158
st1776	Imperial	33.0	-115.7	Pre-Existing (BLM)		Dry	200	25.4%	446	$4,524	$66	$158
st1798	Imperial	33.0	-115.7	Pre-Existing (BLM)	Yes	Dry	200	25.4%	445	$4,574	$66	$159
st1799	Imperial	33.0	-115.7	Pre-Existing (BLM)	Yes	Dry	200	25.4%	445	$4,512	$66	$158
st1800	Imperial	33.0	-115.7	Pre-Existing (BLM)	Yes	Wet	200	27.9%	488	$4,331	$66	$139
st1832	Imperial	32.7	-115.6	Pre-Existing (PPA)		Wet	200	26.9%	471	$4,209	$66	$141
st2208	Imperial	33.0	-115.3	Proxy		Dry	200	26.4%	463	$4,419	$66	$149
st2232	Imperial	33.0	-115.3	Proxy		Dry	200	26.4%	463	$4,442	$66	$150
st2255	Imperial	33.0	-115.2	Proxy		Dry	200	25.1%	441	$4,393	$66	$156
st2289	Imperial	32.7	-115.2	Proxy		Dry	200	27.1%	474	$4,325	$66	$143
st2290	Imperial	32.7	-115.2	Proxy		Dry	200	27.1%	474	$4,350	$66	$144
st2313	Imperial	32.7	-115.2	Proxy		Dry	200	27.1%	474	$4,368	$66	$144
st2326	Imperial	33.0	-115.2	Proxy		Dry	200	25.9%	454	$4,705	$66	$159
st2337	Imperial	32.7	-115.1	Proxy		Dry	200	27.1%	474	$4,369	$66	$144
st2348	Imperial	32.9	-115.1	Proxy		Dry	200	25.9%	454	$4,647	$66	$158
st2349	Imperial	32.9	-115.1	Proxy		Dry	200	25.9%	454	$4,666	$66	$158
st2361	Imperial	32.7	-115.1	Proxy		Dry	200	27.1%	474	$4,336	$66	$143
st2370	Imperial	32.9	-115.1	Proxy		Dry	200	27.1%	474	$4,440	$66	$146
st2371	Imperial	32.9	-115.1	Proxy		Dry	200	25.9%	454	$4,514	$66	$154
st2385	Imperial	32.7	-115.1	Proxy		Dry	200	27.8%	487	$4,344	$66	$140
st2393	Imperial	32.9	-115.1	Proxy		Dry	200	26.7%	468	$4,396	$66	$147
st2394	Imperial	32.9	-115.1	Proxy		Dry	200	26.7%	468	$4,498	$66	$149
st2395	Imperial	32.9	-115.1	Proxy		Dry	200	26.9%	471	$4,587	$66	$151
st2399	Imperial	33.0	-115.1	Proxy		Dry	200	26.9%	471	$4,782	$66	$156
st2417	Imperial	32.9	-115.1	Proxy		Dry	200	26.7%	468	$4,656	$66	$153
st2418	Imperial	32.9	-115.1	Proxy		Dry	200	26.7%	468	$4,604	$66	$152
st2422	Imperial	33.0	-115.1	Proxy		Dry	200	26.9%	471	$4,623	$66	$152
st2439	Imperial	32.8	-115.0	Proxy		Dry	200	26.7%	468	$4,426	$66	$147
st2440	Imperial	32.8	-115.0	Proxy		Dry	200	26.7%	468	$4,587	$66	$152
st2441	Imperial	32.9	-115.0	Proxy		Dry	200	26.7%	468	$4,655	$66	$153
st2445	Imperial	32.9	-115.0	Proxy		Dry	200	26.9%	471	$4,610	$66	$151
st2448	Imperial	33.0	-115.0	Proxy		Dry	200	27.5%	482	$4,535	$66	$146
st2472	Imperial	33.0	-115.0	Proxy		Dry	200	27.5%	482	$4,575	$66	$147
st2487	Imperial	32.8	-115.0	Proxy		Dry	200	27.1%	475	$4,948	$66	$159
st2490	Imperial	32.9	-115.0	Proxy		Dry	200	27.1%	475	$4,503	$66	$147
st2512	Imperial	32.8	-115.0	Proxy		Dry	200	27.1%	475	$4,460	$66	$146
st2514	Imperial	32.9	-115.0	Proxy		Dry	200	27.1%	475	$4,413	$66	$145
st2535	Imperial	32.8	-114.9	Proxy		Dry	200	27.1%	475	$4,548	$66	$149
st2536	Imperial	32.8	-114.9	Proxy		Dry	200	27.1%	475	$4,409	$66	$145
st2537	Imperial	32.9	-114.9	Proxy		Dry	200	27.1%	475	$4,442	$66	$146
st2540	Imperial	32.9	-114.9	Proxy		Dry	200	27.3%	478	$4,452	$66	$145
st2542	Imperial	33.0	-114.9	Proxy		Dry	200	27.3%	478	$4,477	$66	$146
st2558	Imperial	32.8	-114.9	Proxy		Dry	200	27.1%	475	$4,556	$66	$149
st2563	Imperial	32.9	-114.9	Proxy		Dry	200	27.3%	478	$4,447	$66	$145
st2565	Imperial	32.9	-114.9	Proxy		Dry	200	27.3%	478	$4,456	$66	$145
st2566	Imperial	33.0	-114.9	Proxy		Dry	200	27.3%	478	$4,490	$66	$146
st2578	Imperial	32.7	-114.9	Proxy		Dry	200	27.4%	479	$4,516	$66	$146

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Appendix E
Solar Thermal Projects

Project ID	County	Lat	Long	Type	Williamson Act Intersection	Cooling	MW	CF, %	Generation, GWh/yr	Capital Cost, $/kWac	Fixed O&M, $/kWac-yr	LCOE, $/MWh
st2579	Imperial	32.7	-114.9	Proxy		Dry	200	27.4%	479	$4,755	$66	$152
st2580	Imperial	32.8	-114.9	Proxy		Dry	200	27.4%	479	$4,779	$66	$153
st2581	Imperial	32.8	-114.9	Proxy		Dry	200	27.4%	479	$4,469	$66	$145
st2583	Imperial	32.8	-114.9	Proxy		Dry	200	27.1%	475	$4,427	$66	$146
st2584	Imperial	32.8	-114.9	Proxy		Dry	200	27.1%	475	$4,412	$66	$145
st2586	Imperial	32.9	-114.9	Proxy		Dry	200	27.1%	475	$4,463	$66	$146
st2587	Imperial	32.9	-114.9	Proxy		Dry	200	27.3%	478	$4,473	$66	$146
st2588	Imperial	32.9	-114.9	Proxy		Dry	200	27.3%	478	$4,451	$66	$145
st2602	Imperial	32.7	-114.9	Proxy		Dry	200	26.7%	468	$4,371	$66	$146
st2604	Imperial	32.8	-114.9	Proxy		Dry	200	26.7%	468	$4,376	$66	$146
st2605	Imperial	32.8	-114.9	Proxy		Dry	200	26.7%	468	$4,457	$66	$148
st2612	Imperial	32.9	-114.9	Proxy		Dry	200	27.4%	480	$4,486	$66	$145
st2626	Imperial	32.7	-114.8	Proxy		Dry	200	26.7%	468	$4,457	$66	$148
st2633	Imperial	32.9	-114.8	Proxy		Dry	200	27.1%	475	$4,661	$66	$151
st2650	Imperial	32.7	-114.8	Proxy		Dry	200	26.7%	468	$4,417	$66	$147
st2651	Imperial	32.7	-114.8	Proxy		Dry	200	26.7%	468	$4,434	$66	$148
st2654	Imperial	32.8	-114.8	Proxy		Dry	200	27.1%	475	$4,777	$66	$154
st2674	Imperial	32.7	-114.8	Proxy		Dry	200	26.7%	468	$4,452	$66	$148
st2677	Imperial	32.8	-114.8	Proxy		Dry	200	26.7%	468	$4,443	$66	$148
st2685	Imperial	32.9	-114.8	Proxy		Dry	200	27.4%	480	$4,555	$66	$147
st2686	Imperial	33.0	-114.8	Proxy		Dry	200	27.4%	480	$4,464	$66	$145
st2711	Imperial	33.0	-114.8	Proxy		Dry	200	27.6%	483	$4,550	$66	$146
st2754	Imperial	32.9	-114.7	Proxy		Dry	200	27.2%	477	$4,803	$66	$154
st2756	Imperial	32.9	-114.7	Proxy		Dry	200	27.6%	483	$4,474	$66	$144
st2757	Imperial	32.9	-114.7	Proxy		Dry	200	27.6%	483	$4,357	$66	$141
st2758	Imperial	33.0	-114.7	Proxy		Dry	200	27.6%	483	$4,389	$66	$142
st2777	Imperial	32.9	-114.7	Proxy		Dry	200	27.2%	477	$4,609	$66	$149
st2778	Imperial	32.9	-114.7	Proxy		Dry	200	27.2%	477	$4,571	$66	$149
st2780	Imperial	32.9	-114.7	Proxy		Dry	200	27.6%	483	$4,453	$66	$144
st2781	Imperial	32.9	-114.7	Proxy		Dry	200	27.6%	483	$4,445	$66	$143
st2782	Imperial	33.0	-114.7	Proxy		Dry	200	27.6%	483	$4,750	$66	$151
st2802	Imperial	32.9	-114.7	Proxy		Dry	200	27.7%	486	$4,552	$66	$145
st2803	Imperial	32.9	-114.7	Proxy		Dry	200	27.9%	488	$4,683	$66	$148
st2804	Imperial	32.9	-114.7	Proxy		Dry	200	27.9%	488	$4,337	$66	$139
st4764	San Diego	33.2	-116.7	Proxy		Dry	200	23.4%	410	$4,727	$66	$177
st4788	San Diego	33.2	-116.7	Proxy		Wet	200	23.8%	418	$4,577	$66	$170
st4924	San Diego	33.1	-116.5	Proxy	Yes	Dry	200	23.5%	411	$4,902	$66	$182
st5078	San Diego	33.3	-116.4	Proxy		Dry	200	25.9%	453	$4,495	$66	$154
st5123	San Diego	33.2	-116.3	Proxy		Dry	200	25.4%	444	$4,456	$66	$156
st5125	San Diego	33.3	-116.3	Proxy		Dry	200	25.4%	444	$4,450	$66	$156
st5149	San Diego	33.3	-116.3	Proxy		Dry	200	25.4%	444	$4,496	$66	$157
st5380	Imperial	33.1	-116.1	Proxy		Dry	200	25.9%	455	$4,507	$66	$154
st5381	Imperial	33.1	-116.1	Proxy		Dry	200	26.3%	461	$4,530	$66	$153
st5404	Imperial	33.1	-116.0	Proxy		Dry	200	25.9%	455	$4,379	$66	$151
st5426	Imperial	33.0	-116.0	Proxy		Dry	200	25.9%	455	$4,359	$66	$150
st5427	Imperial	33.1	-116.0	Proxy		Dry	200	25.9%	455	$4,389	$66	$151
st5428	Imperial	33.1	-116.0	Proxy		Dry	200	25.9%	455	$4,486	$66	$154
st5451	Imperial	33.1	-116.0	Proxy		Dry	200	25.8%	452	$4,449	$66	$153
st5461	Imperial	33.3	-116.0	Proxy		Dry	200	26.6%	467	$4,671	$66	$154
st5462	Imperial	33.3	-116.0	Proxy		Dry	200	25.3%	444	$4,664	$66	$162
st5463	Imperial	33.3	-116.0	Proxy		Dry	200	25.3%	444	$4,604	$66	$160
st5485	Imperial	33.3	-116.0	Proxy		Dry	200	26.6%	467	$4,501	$66	$150
st5487	Imperial	33.3	-116.0	Proxy		Dry	200	25.3%	444	$4,487	$66	$157
st5532	Imperial	33.2	-115.9	Proxy		Dry	200	26.6%	467	$4,452	$66	$149
st5598	Imperial	33.1	-115.8	Pre-Existing (BLM)	Yes	Dry	200	25.8%	451	$4,375	$66	$152
st5599	Imperial	33.1	-115.8	Pre-Existing (BLM)	Yes	Dry	200	25.8%	451	$4,409	$66	$152
st5641	Imperial	33.0	-115.8	Pre-Existing (BLM)		Dry	200	25.4%	446	$4,411	$66	$155
st5642	Imperial	33.0	-115.8	Pre-Existing (BLM)		Dry	200	25.4%	446	$4,621	$66	$160
st5643	Imperial	33.1	-115.8	Pre-Existing (BLM)		Dry	200	25.4%	446	$4,571	$66	$159
st5644	Imperial	33.1	-115.8	Pre-Existing (BLM)	Yes	Dry	200	25.4%	446	$4,524	$66	$158
st5665	Imperial	33.0	-115.8	Pre-Existing (BLM)		Dry	200	25.4%	446	$4,556	$66	$159
st5666	Imperial	33.0	-115.8	Pre-Existing (BLM)		Dry	200	25.4%	446	$4,547	$66	$158
st5667	Imperial	33.1	-115.8	Pre-Existing (BLM)		Dry	200	25.4%	446	$4,527	$66	$158
st5668	Imperial	33.1	-115.8	Pre-Existing (BLM)	Yes	Dry	200	25.4%	446	$4,515	$66	$157
st5689	Imperial	33.0	-115.7	Pre-Existing (BLM)		Dry	200	25.4%	446	$4,546	$66	$158
st5690	Imperial	33.0	-115.7	Pre-Existing (BLM)		Dry	200	25.4%	446	$4,540	$66	$158
st5691	Imperial	33.1	-115.7	Pre-Existing (BLM)	Yes	Dry	200	25.4%	446	$4,518	$66	$157
st5692	Imperial	33.1	-115.7	Pre-Existing (BLM)	Yes	Dry	200	25.4%	446	$4,452	$66	$156
st5707	Imperial	33.4	-115.7	Proxy		Dry	200	27.6%	483	$4,429	$66	$143
st5713	Imperial	33.0	-115.7	Pre-Existing (BLM)	Yes	Dry	200	25.4%	446	$4,467	$66	$156
st5714	Imperial	33.0	-115.7	Pre-Existing (BLM)	Yes	Dry	200	25.4%	446	$4,472	$66	$156
st5731	Imperial	33.4	-115.7	Proxy		Dry	200	27.6%	483	$4,463	$66	$144
st5754	Imperial	33.4	-115.7	Proxy		Dry	200	24.7%	433	$4,442	$66	$160
st5756	Imperial	33.4	-115.7	Proxy		Dry	200	27.6%	483	$4,629	$66	$148
st5825	Imperial	33.4	-115.6	Pre-Existing (BLM)		Dry	200	25.2%	442	$4,595	$66	$161
st5848	Imperial	33.3	-115.6	Pre-Existing (BLM)		Dry	200	25.2%	442	$4,549	$66	$160

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Appendix E
Solar Thermal Projects

Project ID	County	Lat	Long	Type	Williamson Act Intersection	Cooling	MW	CF, %	Generation, GWh/yr	Capital Cost, $/kWac	Fixed O&M, $/kWac-yr	LCOE, $/MWh
st5849	Imperial	33.4	-115.6	Pre-Existing (BLM)		Dry	200	25.2%	442	$4,811	$66	$167
st5850	Imperial	33.4	-115.6	Pre-Existing (BLM)	Yes	Dry	200	25.2%	442	$5,053	$66	$173
st5873	Imperial	33.4	-115.6	Pre-Existing (BLM)	Yes	Dry	200	26.7%	468	$4,860	$66	$159
st5963	Imperial	33.2	-115.5	Pre-Existing (BLM)	Yes	Dry	200	25.6%	449	$4,550	$66	$157
st5987	Imperial	33.2	-115.4	Pre-Existing (BLM)	Yes	Dry	200	25.6%	449	$4,569	$66	$158
st5988	Imperial	33.2	-115.4	Pre-Existing (BLM)	Yes	Dry	200	25.6%	449	$4,582	$66	$158
st6032	Imperial	33.2	-115.4	Proxy		Dry	200	26.9%	472	$4,562	$66	$150
st6055	Imperial	33.1	-115.4	Proxy		Dry	200	27.0%	474	$4,598	$66	$150
st6057	Imperial	33.2	-115.4	Proxy		Dry	200	27.0%	474	$4,616	$66	$151
st6099	Imperial	33.1	-115.3	Proxy		Dry	200	26.4%	463	$4,824	$66	$159
st6337	Imperial	33.0	-115.1	Proxy		Dry	200	27.5%	482	$4,472	$66	$144
st6385	Imperial	33.0	-115.0	Proxy		Dry	200	27.5%	482	$4,549	$66	$146
st6409	Imperial	33.0	-115.0	Proxy		Dry	200	27.5%	482	$4,596	$66	$148
st6607	Imperial	33.1	-114.8	Proxy		Dry	200	28.3%	496	$4,524	$66	$142
st6621	Imperial	33.4	-114.8	Proxy		Dry	200	26.8%	470	$4,589	$66	$151
st6623	Riverside	33.5	-114.8	Proxy		Dry	200	26.8%	470	$4,575	$66	$151
st6632	Imperial	33.2	-114.8	Proxy		Dry	200	28.3%	496	$4,507	$66	$141
st6644	Imperial	33.4	-114.8	Proxy		Dry	200	26.8%	470	$4,567	$66	$151
st6645	Imperial	33.4	-114.8	Proxy		Dry	200	26.8%	470	$4,496	$66	$149
st6656	Imperial	33.2	-114.8	Proxy		Dry	200	28.0%	491	$4,475	$66	$142
st6668	Imperial	33.4	-114.8	Proxy		Dry	200	27.0%	473	$4,586	$66	$150
st6670	Riverside	33.5	-114.8	Proxy		Dry	200	27.0%	473	$4,493	$66	$148
st6671	Riverside	33.5	-114.8	Proxy		Dry	200	27.0%	473	$4,612	$66	$151
st6672	Riverside	33.5	-114.8	Proxy		Dry	200	25.7%	451	$4,644	$66	$159
st6681	Imperial	33.2	-114.7	Proxy		Dry	200	28.0%	491	$4,458	$66	$141
st6682	Imperial	33.2	-114.7	Proxy		Dry	200	27.7%	486	$4,962	$66	$155
st6683	Imperial	33.2	-114.7	Proxy		Dry	200	27.7%	486	$4,857	$66	$153
st6696	Riverside	33.5	-114.7	Proxy		Dry	200	25.7%	451	$4,387	$66	$152
st6705	Imperial	33.2	-114.7	Proxy		Dry	200	28.0%	491	$5,086	$66	$157
st6706	Imperial	33.2	-114.7	Proxy		Dry	200	27.7%	486	$4,755	$66	$150
st6707	Imperial	33.2	-114.7	Proxy		Dry	200	27.7%	486	$4,883	$66	$153
st8771	Riverside	33.7	-117.1	Proxy		Wet	200	20.6%	360	$4,480	$66	$193
st9450	Riverside	33.9	-116.5	Pre-Existing (BLM)		Dry	200	26.5%	465	$6,211	$66	$195
st9451	Riverside	33.9	-116.5	Pre-Existing (BLM)		Wet	200	29.4%	515	$4,645	$66	$139
st9968	Riverside	33.7	-115.9	Pre-Existing (BLM)		Dry	200	27.7%	485	$4,902	$66	$154
st10016	Riverside	33.7	-115.9	Pre-Existing (BLM)		Dry	200	28.0%	491	$5,337	$66	$163
st10040	Riverside	33.7	-115.9	Pre-Existing (BLM)		Dry	200	28.0%	491	$5,014	$66	$155
st10064	Riverside	33.7	-115.8	Pre-Existing (BLM)		Dry	200	28.0%	491	$5,000	$66	$155
st10088	Riverside	33.7	-115.8	Pre-Existing (BLM)		Dry	200	28.0%	491	$4,654	$66	$146
st10456	Riverside	33.8	-115.4	Pre-Existing (BLM)		Dry	200	27.3%	478	$4,635	$66	$150
st10457	Riverside	33.8	-115.4	Pre-Existing (BLM)		Dry	200	27.3%	478	$4,703	$66	$152
st10458	Riverside	33.9	-115.4	Pre-Existing (BLM)		Dry	200	27.3%	478	$4,643	$66	$150
st10459	Riverside	33.9	-115.4	Pre-Existing (BLM)		Dry	200	26.6%	465	$5,447	$66	$175
st10480	Riverside	33.8	-115.4	Pre-Existing (BLM)		Dry	200	27.3%	478	$4,617	$66	$149
st10481	Riverside	33.8	-115.4	Pre-Existing (BLM)		Dry	200	27.3%	478	$4,628	$66	$150
st10482	Riverside	33.9	-115.4	Pre-Existing (BLM)		Dry	200	27.3%	478	$4,583	$66	$148
st10483	Riverside	33.9	-115.4	Pre-Existing (BLM)		Dry	200	26.6%	465	$4,558	$66	$152
st10502	Riverside	33.8	-115.4	Pre-Existing (BLM)		Dry	200	27.8%	487	$4,581	$66	$146
st10503	Riverside	33.8	-115.4	Pre-Existing (BLM)		Dry	200	27.3%	478	$4,494	$66	$146
st10504	Riverside	33.8	-115.4	Pre-Existing (BLM)		Dry	200	27.3%	478	$4,437	$66	$145
st10505	Riverside	33.8	-115.4	Pre-Existing (BLM)		Dry	200	27.3%	478	$4,425	$66	$144
st10506	Riverside	33.9	-115.4	Pre-Existing (BLM)		Dry	200	27.3%	478	$4,675	$66	$151
st10523	Riverside	33.7	-115.4	Pre-Existing (BLM)		Dry	200	27.6%	483	$4,676	$66	$149
st10527	Riverside	33.8	-115.4	Pre-Existing (BLM)		Dry	200	26.2%	459	$4,522	$66	$153
st10528	Riverside	33.8	-115.4	Pre-Existing (BLM)		Dry	200	26.2%	459	$4,476	$66	$152
st10547	Riverside	33.7	-115.3	Pre-Existing (BLM)		Dry	200	27.6%	483	$4,699	$66	$150
st10548	Riverside	33.7	-115.3	Pre-Existing (PPA)		Dry	200	27.6%	483	$4,432	$66	$143
st10551	Riverside	33.8	-115.3	Pre-Existing (BLM)		Dry	200	26.2%	459	$4,498	$66	$152
st10571	Riverside	33.7	-115.3	Pre-Existing (BLM)		Dry	200	27.6%	483	$4,644	$66	$148
st10573	Riverside	33.8	-115.3	Pre-Existing (BLM)		Dry	200	27.6%	483	$4,300	$66	$140
st10594	Riverside	33.7	-115.3	Pre-Existing (BLM)		Dry	200	27.6%	483	$4,689	$66	$149
st10595	Riverside	33.7	-115.3	Pre-Existing (BLM)		Dry	200	27.6%	483	$4,509	$66	$145
st10596	Riverside	33.7	-115.3	Pre-Existing (BLM)		Dry	200	27.6%	483	$4,302	$66	$140
st10597	Riverside	33.8	-115.3	Pre-Existing (BLM)		Dry	200	27.6%	483	$4,301	$66	$140
st10618	Riverside	33.7	-115.3	Pre-Existing (BLM)		Dry	200	26.8%	470	$4,673	$66	$153
st10619	Riverside	33.7	-115.3	Pre-Existing (BLM)		Dry	200	26.8%	470	$4,361	$66	$145
st10620	Riverside	33.7	-115.3	Pre-Existing (BLM)		Dry	200	26.8%	470	$4,303	$66	$144
st10621	Riverside	33.8	-115.3	Pre-Existing (BLM)		Dry	200	26.8%	470	$4,303	$66	$144
st10641	Riverside	33.7	-115.3	Pre-Existing (BLM)		Dry	200	28.0%	490	$4,718	$66	$148
st10642	Riverside	33.7	-115.3	Pre-Existing (BLM)		Dry	200	26.8%	470	$4,494	$66	$149
st10643	Riverside	33.7	-115.3	Pre-Existing (BLM)		Dry	200	26.8%	470	$4,301	$66	$144
st10644	Riverside	33.7	-115.3	Pre-Existing (BLM)		Dry	200	26.8%	470	$4,302	$66	$144
st10645	Riverside	33.8	-115.3	Proxy		Dry	200	26.8%	470	$4,304	$66	$144
st10646	Riverside	33.8	-115.3	Proxy		Dry	200	26.8%	470	$4,303	$66	$144
st10653	Riverside	33.9	-115.3	Proxy		Dry	200	26.3%	461	$4,720	$66	$157
st10665	Riverside	33.7	-115.2	Pre-Existing (BLM)		Dry	200	28.0%	490	$4,588	$66	$145

Project ID	County	Lat	Long	Type	Williamson Act Intersection	Cooling	MW	CF, %	Generation, GWh/yr	Capital Cost, $/kWac	Fixed O&M, $/kWac-yr	LCOE, $/MWh
st10666	Riverside	33.7	-115.2	Pre-Existing (BLM)		Dry	200	26.8%	470	$4,308	$66	$144
st10667	Riverside	33.7	-115.2	Pre-Existing (BLM)		Dry	200	26.8%	470	$4,300	$66	$144
st10669	Riverside	33.8	-115.2	Proxy		Dry	200	26.8%	470	$4,304	$66	$144
st10671	Riverside	33.8	-115.2	Proxy		Dry	200	25.5%	447	$4,303	$66	$151
st10673	Riverside	33.8	-115.2	Proxy		Dry	200	25.5%	447	$4,302	$66	$151
st10675	Riverside	33.9	-115.2	Proxy		Dry	200	26.3%	461	$4,301	$66	$146
st10677	Riverside	33.9	-115.2	Proxy		Dry	200	26.3%	461	$4,602	$66	$154
st10689	Riverside	33.7	-115.2	Pre-Existing (BLM)		Dry	200	28.0%	490	$4,392	$66	$140
st10690	Riverside	33.7	-115.2	Pre-Existing (BLM)		Dry	200	26.8%	470	$4,306	$66	$144
st10691	Riverside	33.7	-115.2	Pre-Existing (BLM)		Dry	200	26.8%	470	$4,302	$66	$144
st10695	Riverside	33.8	-115.2	Proxy		Dry	200	25.5%	447	$4,302	$66	$151
st10697	Riverside	33.8	-115.2	Proxy		Dry	200	25.5%	447	$4,302	$66	$151
st10713	Riverside	33.7	-115.2	Pre-Existing (BLM)		Dry	200	27.1%	476	$4,495	$66	$147
st10714	Riverside	33.7	-115.2	Pre-Existing (BLM)		Dry	200	25.5%	447	$4,397	$66	$154
st10735	Riverside	33.6	-115.2	Pre-Existing (BLM)		Dry	200	27.1%	476	$4,579	$66	$149
st10758	Riverside	33.6	-115.1	Pre-Existing (BLM)		Dry	200	27.1%	476	$4,540	$66	$148
st10759	Riverside	33.6	-115.1	Pre-Existing (BLM)		Dry	200	27.1%	476	$4,541	$66	$148
st10782	Riverside	33.6	-115.1	Pre-Existing (BLM)		Dry	200	27.1%	476	$4,511	$66	$147
st10783	Riverside	33.6	-115.1	Pre-Existing (BLM)		Dry	200	27.1%	476	$4,417	$66	$145
st10784	Riverside	33.7	-115.1	Pre-Existing (BLM)		Dry	200	27.1%	476	$4,302	$66	$142
st10806	Riverside	33.6	-115.1	Pre-Existing (BLM)		Dry	200	27.4%	479	$4,465	$66	$145
st10807	Riverside	33.6	-115.1	Pre-Existing (BLM)		Dry	200	27.4%	479	$4,306	$66	$141
st10808	Riverside	33.7	-115.1	Pre-Existing (BLM)		Dry	200	27.4%	479	$4,301	$66	$141
st10830	Riverside	33.6	-115.1	Pre-Existing (BLM)		Dry	200	27.4%	479	$4,344	$66	$142
st10831	Riverside	33.6	-115.1	Pre-Existing (BLM)		Dry	200	27.4%	479	$4,301	$66	$141
st10832	Riverside	33.7	-115.1	Pre-Existing (BLM)		Dry	200	27.4%	479	$4,301	$66	$141
st10854	Riverside	33.6	-115.0	Pre-Existing (BLM)		Dry	200	27.4%	479	$4,330	$66	$142
st10855	Riverside	33.6	-115.0	Pre-Existing (BLM)		Dry	200	27.4%	479	$4,333	$66	$142
st10856	Riverside	33.7	-115.0	Pre-Existing (BLM)		Dry	200	27.4%	479	$4,326	$66	$142
st10878	Riverside	33.6	-115.0	Pre-Existing (BLM)		Dry	200	27.4%	479	$4,580	$66	$148
st10879	Riverside	33.6	-115.0	Pre-Existing (BLM)		Dry	200	27.4%	479	$4,530	$66	$147
st10880	Riverside	33.7	-115.0	Pre-Existing (BLM)		Dry	200	27.4%	479	$4,493	$66	$146
st10891	Riverside	33.9	-115.0	Proxy		Dry	200	27.6%	484	$4,829	$66	$153
st10893	Riverside	33.9	-115.0	Proxy		Dry	200	27.6%	484	$4,637	$66	$148
st10902	Riverside	33.6	-115.0	Pre-Existing (BLM)		Dry	200	27.4%	480	$4,321	$66	$141
st10903	Riverside	33.6	-115.0	Pre-Existing (BLM)		Dry	200	27.4%	480	$4,313	$66	$141
st10912	Riverside	33.8	-115.0	Proxy		Dry	200	27.2%	476	$4,765	$66	$154
st10913	Riverside	33.8	-115.0	Proxy		Dry	200	27.2%	476	$4,538	$66	$148
st10914	Riverside	33.9	-115.0	Proxy		Dry	200	27.2%	476	$4,617	$66	$150
st10915	Riverside	33.9	-115.0	Proxy		Dry	200	27.7%	486	$4,881	$66	$153
st10917	Riverside	33.9	-115.0	Proxy		Dry	200	27.7%	486	$4,949	$66	$155
st10926	Riverside	33.6	-115.0	Pre-Existing (BLM)		Dry	200	27.4%	480	$4,300	$66	$141
st10937	Riverside	33.8	-115.0	Proxy		Dry	200	27.2%	476	$4,538	$66	$148
st10938	Riverside	33.9	-115.0	Proxy		Dry	200	27.2%	476	$4,619	$66	$150
st10950	Riverside	33.6	-114.9	Pre-Existing (BLM)		Dry	200	27.4%	480	$4,304	$66	$141
st10974	Riverside	33.6	-114.9	Pre-Existing (BLM)		Dry	200	27.4%	480	$4,473	$66	$145
st10975	Riverside	33.6	-114.9	Pre-Existing (BLM)		Dry	200	27.4%	480	$4,579	$66	$148
st10985	Riverside	33.8	-114.9	Proxy		Dry	200	27.2%	476	$4,788	$66	$154
st10999	Riverside	33.6	-114.9	Proxy		Dry	200	27.4%	480	$4,557	$66	$147
st11017	Riverside	33.5	-114.9	Pre-Existing (BLM)		Dry	200	27.4%	481	$4,803	$66	$153
st11018	Riverside	33.5	-114.9	Pre-Existing (BLM)		Dry	200	27.4%	481	$4,583	$66	$148
st11019	Riverside	33.6	-114.9	Pre-Existing (BLM)		Dry	200	27.4%	481	$4,453	$66	$144
st11020	Riverside	33.6	-114.9	Pre-Existing (BLM)		Dry	200	27.4%	481	$4,347	$66	$142
st11021	Riverside	33.6	-114.9	Pre-Existing (BLM)		Dry	200	25.8%	452	$4,346	$66	$150
st11040	Riverside	34.0	-114.9	Proxy		Dry	200	26.5%	465	$4,531	$66	$151
st11042	Riverside	33.5	-114.8	Pre-Existing (BLM)		Dry	200	27.4%	481	$4,776	$66	$152
st11043	Riverside	33.6	-114.8	Pre-Existing (BLM)		Dry	200	27.4%	481	$4,557	$66	$147
st11044	Riverside	33.6	-114.8	Pre-Existing (BLM)		Dry	200	27.4%	481	$4,338	$66	$141
st11045	Riverside	33.6	-114.8	Pre-Existing (BLM)		Dry	200	25.8%	452	$4,425	$66	$153
st11046	Riverside	33.6	-114.8	Proxy		Dry	200	25.8%	452	$4,594	$66	$157
st11051	Riverside	33.7	-114.8	Pre-Existing (BLM)		Dry	200	27.4%	479	$5,870	$66	$180
st11052	Riverside	33.7	-114.8	Pre-Existing (BLM)		Dry	200	27.4%	479	$4,772	$66	$153
st11053	Riverside	33.8	-114.8	Pre-Existing (BLM)		Dry	200	27.4%	479	$4,614	$66	$149
st11054	Riverside	33.8	-114.8	Proxy		Dry	200	27.4%	479	$4,510	$66	$146
st11067	Riverside	33.6	-114.8	Pre-Existing (BLM)		Dry	200	27.4%	481	$4,653	$66	$149
st11068	Riverside	33.6	-114.8	Pre-Existing (BLM)		Dry	200	27.4%	481	$4,357	$66	$142
st11069	Riverside	33.6	-114.8	Pre-Existing (BLM)		Dry	200	25.8%	452	$4,450	$66	$153
st11070	Riverside	33.6	-114.8	Proxy		Dry	200	25.8%	452	$4,628	$66	$158
st11073	Riverside	33.7	-114.8	Pre-Existing (BLM)		Dry	200	25.8%	452	$6,776	$66	$215
st11074	Riverside	33.7	-114.8	Pre-Existing (BLM)		Dry	200	27.4%	479	$4,774	$66	$153
st11075	Riverside	33.7	-114.8	Pre-Existing (BLM)		Dry	200	27.4%	479	$4,634	$66	$149
st11076	Riverside	33.7	-114.8	Pre-Existing (BLM)		Dry	200	27.4%	479	$4,573	$66	$148
st11077	Riverside	33.8	-114.8	Pre-Existing (BLM)		Dry	200	27.4%	479	$4,520	$66	$146
st11078	Riverside	33.8	-114.8	Proxy		Dry	200	27.4%	479	$4,476	$66	$145
st11083	Riverside	33.9	-114.8	Proxy		Dry	200	26.8%	470	$5,040	$66	$163
st11084	Riverside	33.9	-114.8	Proxy		Dry	200	26.8%	470	$4,548	$66	$150

RETI Phase 1B Draft Report
Appendix E
Solar Thermal Projects

Project ID	County	Lat	Long	Type	Williamson Act Intersection	Cooling	MW	CF, %	Generation, GWh/yr	Capital Cost, $/kWac	Fixed O&M, $/kWac-yr	LCOE, $/MWh
st11091	Riverside	33.6	-114.8	Pre-Existing (BLM)		Dry	200	27.4%	481	$4,714	$66	$151
st11092	Riverside	33.6	-114.8	Pre-Existing (BLM)		Dry	200	27.4%	481	$4,513	$66	$146
st11093	Riverside	33.6	-114.8	Pre-Existing (BLM)		Dry	200	25.8%	452	$4,450	$66	$153
st11096	Riverside	33.7	-114.8	Pre-Existing (BLM)		Dry	200	25.8%	452	$4,848	$66	$164
st11097	Riverside	33.7	-114.8	Pre-Existing (BLM)		Dry	200	25.8%	452	$4,708	$66	$160
st11098	Riverside	33.7	-114.8	Pre-Existing (BLM)		Dry	200	27.4%	479	$4,568	$66	$148
st11101	Riverside	33.8	-114.8	Pre-Existing (BLM)		Dry	200	27.4%	479	$4,506	$66	$146
st11102	Riverside	33.8	-114.8	Proxy		Dry	200	27.4%	479	$4,520	$66	$146
st11103	Riverside	33.8	-114.8	Proxy		Dry	200	27.0%	473	$4,970	$66	$160
st11105	Riverside	33.8	-114.8	Proxy		Dry	200	27.0%	473	$4,589	$66	$150
st11106	Riverside	33.9	-114.8	Proxy		Dry	200	27.0%	473	$4,828	$66	$156
st11113	Riverside	33.5	-114.8	Pre-Existing (BLM)		Dry	200	25.7%	451	$4,751	$66	$162
st11114	Riverside	33.5	-114.8	Pre-Existing (BLM)		Dry	200	25.7%	451	$4,511	$66	$156
st11115	Riverside	33.6	-114.8	Proxy		Dry	200	25.7%	451	$4,394	$66	$152
st11116	Riverside	33.6	-114.8	Pre-Existing (BLM)		Dry	200	25.7%	451	$4,431	$66	$153
st11117	Riverside	33.6	-114.8	Pre-Existing (BLM)		Dry	200	27.2%	477	$4,790	$66	$154
st11119	Riverside	33.6	-114.8	Proxy		Dry	200	27.2%	477	$4,661	$66	$151
st11120	Riverside	33.7	-114.8	Pre-Existing (BLM)		Dry	200	27.2%	477	$4,527	$66	$147
st11121	Riverside	33.7	-114.8	Pre-Existing (BLM)		Dry	200	27.2%	477	$4,510	$66	$147
st11122	Riverside	33.7	-114.8	Pre-Existing (BLM)		Dry	200	26.8%	469	$4,465	$66	$148
st11123	Riverside	33.7	-114.8	Pre-Existing (BLM)		Dry	200	26.8%	469	$4,430	$66	$147
st11124	Riverside	33.7	-114.8	Pre-Existing (BLM)		Dry	200	26.8%	469	$4,422	$66	$147
st11125	Riverside	33.8	-114.8	Pre-Existing (BLM)		Dry	200	26.8%	469	$4,487	$66	$149
st11127	Riverside	33.8	-114.8	Proxy		Dry	200	27.5%	482	$4,505	$66	$145
st11129	Riverside	33.8	-114.8	Proxy		Dry	200	27.5%	482	$4,634	$66	$149
st11137	Riverside	33.5	-114.7	Pre-Existing (BLM)		Dry	200	25.7%	451	$4,450	$66	$154
st11138	Riverside	33.5	-114.7	Pre-Existing (BLM)		Dry	200	25.7%	451	$4,454	$66	$154
st11139	Riverside	33.6	-114.7	Pre-Existing (BLM)		Dry	200	25.7%	451	$4,436	$66	$153
st11140	Riverside	33.6	-114.7	Pre-Existing (BLM)		Dry	200	25.7%	451	$4,428	$66	$153
st11143	Riverside	33.6	-114.7	Pre-Existing (BLM)		Dry	200	27.2%	477	$4,485	$66	$146
st11144	Riverside	33.7	-114.7	Pre-Existing (BLM)		Dry	200	27.2%	477	$4,418	$66	$145
st11145	Riverside	33.7	-114.7	Pre-Existing (BLM)		Dry	200	27.2%	477	$4,387	$66	$144
st11146	Riverside	33.7	-114.7	Pre-Existing (BLM)		Dry	200	26.8%	469	$4,402	$66	$147
st11147	Riverside	33.7	-114.7	Pre-Existing (BLM)		Dry	200	26.8%	469	$4,426	$66	$147
st11148	Riverside	33.7	-114.7	Pre-Existing (BLM)		Dry	200	26.8%	469	$4,445	$66	$148
st11149	Riverside	33.8	-114.7	Pre-Existing (BLM)		Dry	200	26.8%	469	$4,539	$66	$150
st11151	Riverside	33.8	-114.7	Proxy		Dry	200	27.5%	482	$4,545	$66	$146
st11152	Riverside	33.8	-114.7	Proxy		Dry	200	27.5%	482	$4,705	$66	$150
st11162	Riverside	33.5	-114.7	Pre-Existing (BLM)	Yes	Dry	200	25.7%	451	$4,386	$66	$152
st11163	Riverside	33.6	-114.7	Pre-Existing (BLM)	Yes	Dry	200	25.7%	451	$4,405	$66	$153
st11164	Riverside	33.6	-114.7	Pre-Existing (BLM)	Yes	Dry	200	25.7%	451	$4,437	$66	$154
st11167	Riverside	33.6	-114.7	Pre-Existing (BLM)		Dry	200	27.2%	477	$4,459	$66	$146
st11168	Riverside	33.7	-114.7	Pre-Existing (BLM)		Dry	200	27.2%	477	$4,429	$66	$145
st11169	Riverside	33.7	-114.7	Pre-Existing (BLM)		Dry	200	27.2%	477	$4,417	$66	$145
st11170	Riverside	33.7	-114.7	Pre-Existing (BLM)		Dry	200	26.8%	469	$4,415	$66	$147
st11171	Riverside	33.7	-114.7	Pre-Existing (BLM)		Dry	200	26.8%	469	$4,462	$66	$148
st11172	Riverside	33.7	-114.7	Pre-Existing (BLM)		Dry	200	26.8%	469	$4,467	$66	$148
st11173	Riverside	33.8	-114.7	Pre-Existing (BLM)		Dry	200	26.8%	469	$4,597	$66	$152
st11174	Riverside	33.8	-114.7	Pre-Existing (BLM)		Dry	200	26.8%	469	$4,660	$66	$153
st11175	Riverside	33.8	-114.7	Pre-Existing (BLM)		Dry	200	27.5%	482	$4,783	$66	$152
st11176	Riverside	33.8	-114.7	Pre-Existing (BLM)		Dry	200	27.5%	482	$4,685	$66	$150
st11193	Riverside	33.7	-114.7	Pre-Existing (BLM)		Dry	200	27.2%	477	$4,414	$66	$145
st11194	Riverside	33.7	-114.7	Pre-Existing (BLM)		Dry	200	26.8%	469	$4,429	$66	$147
st11195	Riverside	33.7	-114.7	Proxy		Dry	200	26.8%	469	$4,454	$66	$148
st11197	Riverside	33.8	-114.7	Pre-Existing (BLM)		Dry	200	26.8%	469	$4,670	$66	$154
st11198	Riverside	33.8	-114.7	Pre-Existing (BLM)		Dry	200	26.8%	469	$4,776	$66	$156
st11199	Riverside	33.8	-114.7	Pre-Existing (BLM)		Dry	200	27.5%	482	$5,910	$66	$181
st11215	Riverside	33.6	-114.7	Proxy		Dry	200	27.1%	475	$4,534	$66	$148
st11216	Riverside	33.7	-114.7	Proxy		Dry	200	27.1%	475	$4,428	$66	$145
st11217	Riverside	33.7	-114.7	Pre-Existing (BLM)		Dry	200	27.1%	475	$4,401	$66	$145
st11219	Riverside	33.7	-114.7	Pre-Existing (BLM)		Dry	200	26.4%	463	$4,528	$66	$152
st11220	Riverside	33.7	-114.7	Pre-Existing (BLM)		Dry	200	26.4%	463	$4,619	$66	$154
st11221	Riverside	33.8	-114.7	Pre-Existing (BLM)		Dry	200	26.4%	463	$4,743	$66	$157
st11222	Riverside	33.8	-114.7	Pre-Existing (BLM)		Dry	200	26.4%	463	$5,179	$66	$169
st11243	Riverside	33.7	-114.6	Pre-Existing (BLM)		Dry	200	26.4%	463	$4,637	$66	$155
st11244	Riverside	33.7	-114.6	Pre-Existing (BLM)		Dry	200	26.4%	463	$4,796	$66	$159
st11245	Riverside	33.8	-114.6	Pre-Existing (BLM)		Dry	200	26.4%	463	$4,863	$66	$161
st11254	Riverside	34.0	-114.6	Proxy		Dry	200	26.2%	459	$4,668	$66	$157
st11267	Riverside	33.7	-114.6	Pre-Existing (BLM)		Dry	200	26.4%	463	$4,793	$66	$159
st11306	Riverside	33.5	-114.6	Proxy		Dry	200	27.4%	480	$4,301	$66	$141
st11338	Riverside	33.7	-114.5	Proxy		Dry	200	27.3%	479	$4,641	$66	$150
st14832	San Berna	34.5	-117.5	Proxy		Dry	200	26.6%	465	$4,670	$66	$155
st14856	San Berna	34.5	-117.5	Proxy		Wet	200	27.7%	485	$4,572	$66	$146
st14880	San Berna	34.5	-117.5	Proxy		Wet	200	27.7%	485	$4,585	$66	$146
st14904	San Berna	34.5	-117.5	Proxy		Wet	200	27.7%	485	$4,531	$66	$145
st14928	San Berna	34.5	-117.4	Proxy		Wet	200	27.7%	485	$4,517	$66	$145

RETI Phase 1B Draft Report
Appendix E
Solar Thermal Projects

Project ID	County	Lat	Long	Type	Williamson Act Intersection	Cooling	MW	CF, %	Generation, GWh/yr	Capital Cost, $/kWac	Fixed O&M, $/kWac-yr	LCOE, $/MWh
st15239	San Berna	34.5	-117.1	Proxy		Wet	200	28.4%	497	$5,189	$66	$157
st15262	San Berna	34.5	-117.1	Proxy		Dry	200	27.5%	483	$4,641	$66	$148
st15310	San Berna	34.5	-117.0	Proxy		Dry	200	27.5%	482	$4,690	$66	$150
st15333	San Berna	34.4	-117.0	Proxy		Dry	200	27.5%	482	$4,776	$66	$152
st15334	San Berna	34.5	-117.0	Proxy		Dry	200	27.5%	482	$4,661	$66	$149
st15360	San Berna	34.5	-117.0	Proxy		Dry	200	27.2%	477	$5,107	$66	$162
st15383	San Berna	34.5	-117.0	Proxy		Dry	200	26.9%	471	$4,588	$66	$151
st15384	San Berna	34.5	-117.0	Pre-Existing (BLM)		Dry	200	26.3%	462	$4,311	$66	$147
st15408	San Berna	34.5	-116.9	Pre-Existing (BLM)		Dry	200	26.3%	462	$4,300	$66	$146
st15430	San Berna	34.5	-116.9	Proxy		Dry	200	26.9%	471	$4,364	$66	$145
st15432	San Berna	34.5	-116.9	Pre-Existing (BLM)		Dry	200	26.3%	462	$4,300	$66	$146
st15453	San Berna	34.4	-116.9	Proxy		Dry	200	26.9%	471	$4,692	$66	$153
st15454	San Berna	34.5	-116.9	Proxy		Dry	200	26.9%	471	$4,361	$66	$145
st15456	San Berna	34.5	-116.9	Proxy		Dry	200	26.3%	462	$4,300	$66	$146
st15478	San Berna	34.5	-116.9	Proxy		Dry	200	27.0%	474	$4,521	$66	$148
st15502	San Berna	34.5	-116.9	Proxy		Dry	200	27.0%	474	$4,416	$66	$146
st15503	San Berna	34.5	-116.9	Proxy		Dry	200	27.0%	474	$4,720	$66	$153
st15504	San Berna	34.5	-116.9	Proxy		Dry	200	27.6%	483	$4,724	$66	$150
st15525	San Berna	34.4	-116.8	Pre-Existing (BLM)		Dry	200	27.0%	474	$4,702	$66	$153
st15549	San Berna	34.4	-116.8	Pre-Existing (BLM)		Dry	200	27.0%	474	$4,722	$66	$153
st15622	San Berna	34.5	-116.7	Proxy		Dry	200	26.6%	467	$4,937	$66	$161
st15623	San Berna	34.5	-116.7	Proxy		Dry	200	26.6%	467	$4,623	$66	$153
st15646	San Berna	34.5	-116.7	Pre-Existing (BLM)		Dry	200	26.6%	467	$4,563	$66	$152
st15720	San Berna	34.5	-116.6	Proxy		Dry	200	26.9%	471	$4,690	$66	$153
st15738	San Berna	34.4	-116.6	Proxy		Dry	200	26.4%	462	$4,699	$66	$157
st15743	San Berna	34.5	-116.6	Proxy		Dry	200	26.8%	470	$4,751	$66	$155
st15766	San Berna	34.5	-116.6	Proxy		Dry	200	27.5%	482	$4,335	$66	$141
st15767	San Berna	34.5	-116.6	Proxy		Dry	200	27.5%	482	$4,642	$66	$149
st15790	San Berna	34.5	-116.6	Proxy		Dry	200	27.5%	482	$5,356	$66	$167
st15808	San Berna	34.3	-116.5	Pre-Existing (BLM)		Dry	200	27.1%	475	$5,935	$66	$184
st15809	San Berna	34.3	-116.5	Pre-Existing (BLM)		Dry	200	27.1%	475	$5,245	$66	$166
st15811	San Berna	34.4	-116.5	Pre-Existing (BLM)		Dry	200	27.5%	482	$5,356	$66	$167
st15812	San Berna	34.4	-116.5	Pre-Existing (BLM)		Dry	200	27.5%	482	$6,542	$66	$196
st15832	San Berna	34.3	-116.5	Pre-Existing (BLM)		Dry	200	27.1%	475	$5,426	$66	$171
st15833	San Berna	34.3	-116.5	Pre-Existing (BLM)		Dry	200	27.1%	475	$5,095	$66	$162
st15834	San Berna	34.4	-116.5	Pre-Existing (BLM)		Dry	200	27.1%	475	$5,898	$66	$183
st15835	San Berna	34.4	-116.5	Pre-Existing (BLM)		Dry	200	27.5%	482	$5,191	$66	$162
st15836	San Berna	34.4	-116.5	Pre-Existing (BLM)		Dry	200	27.5%	482	$4,782	$66	$152
st15854	San Berna	34.3	-116.5	Pre-Existing (BLM)		Dry	200	28.3%	495	$5,977	$66	$177
st15855	San Berna	34.3	-116.5	Pre-Existing (BLM)		Dry	200	27.1%	475	$5,458	$66	$172
st15856	San Berna	34.3	-116.5	Pre-Existing (BLM)		Dry	200	27.1%	475	$5,298	$66	$168
st15857	San Berna	34.3	-116.5	Pre-Existing (BLM)		Dry	200	27.1%	475	$5,263	$66	$167
st15858	San Berna	34.4	-116.5	Pre-Existing (BLM)		Dry	200	27.1%	475	$5,229	$66	$166
st15859	San Berna	34.4	-116.5	Pre-Existing (BLM)		Dry	200	27.5%	482	$5,161	$66	$162
st15878	San Berna	34.3	-116.5	Pre-Existing (BLM)		Dry	200	28.7%	503	$5,941	$66	$174
st15879	San Berna	34.3	-116.5	Pre-Existing (BLM)		Dry	200	27.8%	488	$5,346	$66	$164
st15880	San Berna	34.3	-116.5	Pre-Existing (BLM)		Dry	200	27.8%	488	$5,169	$66	$160
st15881	San Berna	34.3	-116.5	Pre-Existing (BLM)		Dry	200	27.8%	488	$4,938	$66	$154
st15882	San Berna	34.4	-116.5	Pre-Existing (BLM)		Dry	200	27.8%	488	$6,658	$66	$197
st15883	San Berna	34.4	-116.5	Pre-Existing (BLM)		Dry	200	27.4%	481	$7,303	$66	$216
st15922	San Berna	34.2	-116.4	Proxy		Wet	200	29.7%	520	$4,527	$66	$135
st15926	San Berna	34.3	-116.4	Pre-Existing (BLM)		Dry	200	28.7%	503	$4,883	$66	$148
st15928	San Berna	34.3	-116.4	Pre-Existing (BLM)		Dry	200	27.8%	488	$5,676	$66	$173
st15929	San Berna	34.3	-116.4	Pre-Existing (BLM)		Dry	200	27.8%	488	$5,019	$66	$156
st15950	San Berna	34.3	-116.4	Pre-Existing (BLM)		Dry	200	28.7%	503	$4,504	$66	$139
st15951	San Berna	34.3	-116.4	Pre-Existing (BLM)		Dry	200	27.8%	488	$4,770	$66	$150
st15952	San Berna	34.3	-116.4	Pre-Existing (BLM)		Dry	200	27.8%	488	$5,936	$66	$179
st15953	San Berna	34.3	-116.4	Pre-Existing (BLM)		Dry	200	27.8%	488	$5,115	$66	$159
st15974	San Berna	34.3	-116.4	Pre-Existing (BLM)		Dry	200	28.8%	505	$5,510	$66	$163
st15975	San Berna	34.3	-116.4	Pre-Existing (BLM)		Dry	200	27.8%	486	$6,130	$66	$184
st15976	San Berna	34.3	-116.4	Pre-Existing (BLM)		Dry	200	27.8%	486	$6,233	$66	$187
st15977	San Berna	34.3	-116.4	Pre-Existing (BLM)		Dry	200	27.8%	486	$4,866	$66	$153
st15998	San Berna	34.3	-116.3	Pre-Existing (BLM)		Dry	200	28.8%	505	$4,769	$66	$145
st15999	San Berna	34.3	-116.3	Pre-Existing (BLM)		Dry	200	27.8%	486	$4,918	$66	$154
st16063	San Berna	34.1	-116.3	Proxy		Dry	200	29.0%	509	$4,832	$66	$145
st16089	San Berna	34.2	-116.2	Proxy		Dry	200	29.0%	509	$4,468	$66	$137
st16112	San Berna	34.2	-116.2	Proxy		Dry	200	29.0%	509	$4,797	$66	$145
st16113	San Berna	34.2	-116.2	Proxy		Dry	200	29.0%	509	$4,967	$66	$149
st16163	San Berna	34.2	-116.2	Proxy		Dry	200	28.0%	490	$4,666	$66	$147
st16184	San Berna	34.2	-116.1	Proxy		Dry	200	27.7%	486	$4,664	$66	$148
st16185	San Berna	34.2	-116.1	Proxy		Dry	200	27.7%	486	$4,474	$66	$143
stm16213	San Berna	34.3	-116.1	Pre-Existing (Military)		Dry	200	28.0%	490	$4,601	$66	$145
st16233	San Berna	34.2	-116.1	Proxy		Wet	200	28.9%	506	$4,507	$66	$138
st16234	San Berna	34.2	-116.1	Proxy		Dry	200	28.0%	490	$4,593	$66	$145
st16258	San Berna	34.2	-116.1	Proxy		Dry	200	27.5%	482	$4,757	$66	$152
st16329	San Berna	34.2	-116.0	Proxy		Dry	200	26.8%	469	$4,680	$66	$154

RETI Phase 1B Draft Report
Appendix E
Solar Thermal Projects

Project ID	County	Lat	Long	Type	Williamson Act Intersection	Cooling	MW	CF, %	Generation, GWh/yr	Capital Cost, $/kWac	Fixed O&M, $/kWac-yr	LCOE, $/MWh
st16330	San Berna	34.2	-116.0	Proxy		Dry	200	27.5%	482	$4,668	$66	$149
st16331	San Berna	34.2	-116.0	Proxy		Dry	200	27.5%	482	$4,700	$66	$150
st16352	San Berna	34.2	-116.0	Proxy		Dry	200	25.8%	453	$4,517	$66	$155
st16353	San Berna	34.2	-116.0	Proxy		Dry	200	25.8%	453	$4,345	$66	$150
st16354	San Berna	34.2	-116.0	Proxy		Dry	200	26.7%	467	$4,738	$66	$156
st16355	San Berna	34.2	-116.0	Pre-Existing (BLM)		Dry	200	26.7%	467	$5,295	$66	$170
st16356	San Berna	34.2	-116.0	Pre-Existing (BLM)		Dry	200	26.7%	467	$4,858	$66	$159
st16357	San Berna	34.3	-116.0	Pre-Existing (BLM)		Dry	200	26.7%	467	$4,752	$66	$156
st16358	San Berna	34.3	-116.0	Pre-Existing (BLM)		Dry	200	26.7%	467	$4,948	$66	$161
st16379	San Berna	34.2	-116.0	Pre-Existing (BLM)		Dry	200	26.7%	467	$5,740	$66	$182
st16382	San Berna	34.3	-116.0	Pre-Existing (BLM)		Dry	200	26.7%	467	$4,978	$66	$162
st16402	San Berna	34.2	-115.9	Pre-Existing (BLM)		Dry	200	26.7%	467	$5,461	$66	$174
st16403	San Berna	34.2	-115.9	Pre-Existing (BLM)		Dry	200	26.7%	467	$5,287	$66	$170
st16406	San Berna	34.3	-115.9	Pre-Existing (BLM)		Dry	200	26.7%	467	$4,897	$66	$160
st16423	San Berna	34.1	-115.9	Proxy		Dry	200	25.8%	453	$4,631	$66	$158
st16424	San Berna	34.2	-115.9	Proxy		Dry	200	25.8%	453	$4,477	$66	$154
st16425	San Berna	34.2	-115.9	Proxy		Dry	200	25.8%	453	$4,523	$66	$155
st16426	San Berna	34.2	-115.9	Pre-Existing (BLM)		Dry	200	26.7%	467	$4,590	$66	$152
st16448	San Berna	34.2	-115.9	Proxy		Dry	200	26.7%	467	$4,701	$66	$155
st16449	San Berna	34.2	-115.9	Proxy		Dry	200	26.7%	467	$4,588	$66	$152
st16471	San Berna	34.1	-115.9	Proxy		Dry	200	26.7%	467	$4,586	$66	$152
st16472	San Berna	34.2	-115.9	Proxy		Dry	200	26.7%	467	$4,533	$66	$151
st16520	San Berna	34.2	-115.8	Proxy		Dry	200	26.7%	467	$4,361	$66	$146
st16558	San Berna	34.5	-115.8	Proxy		Dry	200	24.8%	435	$4,627	$66	$164
st16559	San Berna	34.5	-115.8	Proxy		Dry	200	24.8%	435	$4,420	$66	$159
st16569	San Berna	34.2	-115.8	Proxy		Dry	200	26.9%	471	$4,459	$66	$148
st16582	San Berna	34.5	-115.8	Proxy		Dry	200	24.8%	435	$4,561	$66	$162
st16583	San Berna	34.5	-115.8	Proxy		Dry	200	24.8%	435	$4,546	$66	$162
st16584	San Berna	34.5	-115.8	Proxy		Dry	200	26.1%	457	$4,550	$66	$154
st16592	San Berna	34.2	-115.7	Proxy		Dry	200	26.9%	471	$4,482	$66	$148
st16606	San Berna	34.5	-115.7	Proxy		Dry	200	24.8%	435	$4,673	$66	$166
st16607	San Berna	34.5	-115.7	Proxy		Dry	200	24.8%	435	$4,643	$66	$165
st16628	San Berna	34.4	-115.7	Proxy		Dry	200	24.8%	435	$4,563	$66	$163
st16629	San Berna	34.4	-115.7	Proxy		Dry	200	24.8%	435	$4,386	$66	$158
st16651	San Berna	34.4	-115.7	Proxy		Dry	200	24.8%	435	$4,421	$66	$159
st16653	San Berna	34.4	-115.7	Proxy		Dry	200	24.8%	435	$4,452	$66	$159
st16654	San Berna	34.5	-115.7	Proxy		Dry	200	24.8%	435	$4,501	$66	$161
st16655	San Berna	34.5	-115.7	Proxy		Dry	200	24.8%	435	$4,535	$66	$162
st16656	San Berna	34.5	-115.7	Proxy		Dry	200	26.1%	457	$4,558	$66	$155
st16675	San Berna	34.4	-115.7	Proxy		Dry	200	25.7%	450	$4,376	$66	$152
st16676	San Berna	34.4	-115.7	Proxy		Dry	200	25.7%	450	$4,432	$66	$154
st16677	San Berna	34.4	-115.7	Proxy		Dry	200	25.7%	450	$4,476	$66	$155
st16678	San Berna	34.5	-115.7	Proxy		Dry	200	25.7%	450	$4,549	$66	$157
st16679	San Berna	34.5	-115.7	Proxy		Dry	200	25.7%	450	$4,526	$66	$156
st16680	San Berna	34.5	-115.7	Proxy		Dry	200	25.8%	451	$4,462	$66	$154
st16700	San Berna	34.4	-115.6	Proxy		Dry	200	25.7%	450	$4,429	$66	$153
st16701	San Berna	34.4	-115.6	Proxy		Dry	200	25.7%	450	$4,455	$66	$154
st16702	San Berna	34.5	-115.6	Proxy		Dry	200	25.7%	450	$4,423	$66	$153
st16703	San Berna	34.5	-115.6	Proxy		Dry	200	25.7%	450	$4,406	$66	$153
st16727	San Berna	34.5	-115.6	Proxy		Dry	200	25.7%	450	$4,409	$66	$153
st16774	San Berna	34.5	-115.6	Proxy		Dry	200	26.3%	460	$4,535	$66	$153
st16800	San Berna	34.5	-115.5	Proxy		Dry	200	26.3%	461	$4,462	$66	$151
st16821	San Berna	34.4	-115.5	Pre-Existing (BLM)		Dry	200	26.3%	460	$4,370	$66	$149
st16822	San Berna	34.5	-115.5	Pre-Existing (BLM)		Dry	200	26.3%	460	$4,439	$66	$150
st16823	San Berna	34.5	-115.5	Pre-Existing (BLM)		Dry	200	26.3%	460	$4,430	$66	$150
st16824	San Berna	34.5	-115.5	Proxy		Dry	200	26.3%	461	$4,425	$66	$150
st16843	San Berna	34.4	-115.5	Pre-Existing (BLM)		Dry	200	26.3%	460	$4,449	$66	$151
st16844	San Berna	34.4	-115.5	Pre-Existing (BLM)		Dry	200	26.3%	460	$4,447	$66	$151
st16845	San Berna	34.4	-115.5	Pre-Existing (BLM)		Dry	200	26.3%	460	$4,409	$66	$150
st16846	San Berna	34.5	-115.5	Pre-Existing (BLM)		Dry	200	26.3%	460	$4,487	$66	$152
st16847	San Berna	34.5	-115.5	Pre-Existing (BLM)		Dry	200	26.3%	460	$4,434	$66	$150
st16866	San Berna	34.4	-115.5	Proxy		Dry	200	25.2%	441	$4,302	$66	$153
st16868	San Berna	34.4	-115.5	Pre-Existing (BLM)		Dry	200	26.5%	464	$4,443	$66	$149
st16869	San Berna	34.4	-115.5	Pre-Existing (BLM)		Dry	200	26.5%	464	$4,442	$66	$149
st16870	San Berna	34.5	-115.5	Pre-Existing (BLM)		Dry	200	26.5%	464	$4,501	$66	$151
st16871	San Berna	34.5	-115.5	Pre-Existing (BLM)		Dry	200	26.5%	464	$4,582	$66	$153
st16893	San Berna	34.4	-115.4	Pre-Existing (BLM)		Dry	200	26.5%	464	$4,427	$66	$149
st16894	San Berna	34.5	-115.4	Pre-Existing (BLM)		Dry	200	26.5%	464	$4,654	$66	$155
st16895	San Berna	34.5	-115.4	Pre-Existing (BLM)		Dry	200	26.5%	464	$4,873	$66	$161
st16896	San Berna	34.5	-115.4	Proxy		Dry	200	26.5%	464	$4,879	$66	$161
st16910	San Berna	34.3	-115.4	Proxy		Dry	200	25.1%	440	$4,445	$66	$158
st16912	San Berna	34.3	-115.4	Proxy		Dry	200	25.2%	441	$4,300	$66	$153
st16917	San Berna	34.4	-115.4	Pre-Existing (BLM)		Dry	200	26.5%	464	$4,587	$66	$153
st16918	San Berna	34.5	-115.4	Pre-Existing (BLM)		Dry	200	26.5%	464	$6,122	$66	$193
st16942	San Berna	34.5	-115.4	Pre-Existing (BLM)		Dry	200	26.5%	464	$7,777	$66	$236
st16956	San Berna	34.2	-115.4	Pre-Existing (BLM)		Dry	200	25.4%	445	$4,334	$66	$153

RETI Phase 1B Draft Report
Appendix E
Solar Thermal Projects

Project ID	County	Lat	Long	Type	Williamson Act Intersection	Cooling	MW	CF, %	Generation, GWh/yr	Capital Cost, $/kWac	Fixed O&M, $/kWac-yr	LCOE, $/MWh
st16959	San Berna	34.3	-115.4	Proxy		Dry	200	26.2%	459	$4,511	$66	$153
st16966	San Berna	34.5	-115.4	Pre-Existing (BLM)		Dry	200	24.8%	435	$5,097	$66	$177
st16976	San Berna	34.2	-115.3	Pre-Existing (BLM)		Dry	200	26.5%	465	$4,611	$66	$153
st16977	San Berna	34.2	-115.3	Pre-Existing (BLM)		Dry	200	26.5%	465	$4,526	$66	$151
st16981	San Berna	34.3	-115.3	Proxy		Dry	200	25.4%	445	$4,329	$66	$152
st16989	San Berna	34.4	-115.3	Pre-Existing (BLM)		Dry	200	24.8%	435	$4,736	$66	$167
st16990	San Berna	34.5	-115.3	Pre-Existing (BLM)		Dry	200	24.8%	435	$4,875	$66	$171
st16997	San Berna	34.1	-115.3	Pre-Existing (BLM)		Dry	200	26.5%	465	$5,220	$66	$169
st16998	San Berna	34.1	-115.3	Pre-Existing (BLM)		Dry	200	26.5%	465	$4,708	$66	$156
st16999	San Berna	34.1	-115.3	Pre-Existing (BLM)		Dry	200	26.5%	465	$4,598	$66	$153
st17002	San Berna	34.2	-115.3	Pre-Existing (BLM)		Dry	200	25.4%	445	$4,616	$66	$160
st17003	San Berna	34.2	-115.3	Pre-Existing (BLM)		Dry	200	25.4%	445	$4,735	$66	$164
st17004	San Berna	34.2	-115.3	Pre-Existing (BLM)		Dry	200	25.4%	445	$4,780	$66	$165
st17012	San Berna	34.4	-115.3	Pre-Existing (BLM)		Dry	200	24.8%	435	$4,791	$66	$169
st17013	San Berna	34.4	-115.3	Pre-Existing (BLM)		Dry	200	24.8%	435	$4,825	$66	$170
st17021	San Berna	34.1	-115.3	Pre-Existing (BLM)		Dry	200	26.5%	465	$4,707	$66	$156
st17022	San Berna	34.1	-115.3	Pre-Existing (BLM)		Dry	200	26.5%	465	$4,549	$66	$152
st17023	San Berna	34.1	-115.3	Pre-Existing (BLM)		Dry	200	26.5%	465	$4,436	$66	$149
st17026	San Berna	34.2	-115.3	Pre-Existing (BLM)		Dry	200	25.4%	445	$4,821	$66	$166
st17027	San Berna	34.2	-115.3	Pre-Existing (BLM)		Dry	200	25.4%	445	$4,827	$66	$166
st17028	San Berna	34.2	-115.3	Pre-Existing (BLM)		Dry	200	25.4%	445	$5,166	$66	$175
st17031	San Berna	34.3	-115.3	Pre-Existing (BLM)		Dry	200	26.2%	459	$6,154	$66	$196
st17032	San Berna	34.3	-115.3	Pre-Existing (BLM)		Dry	200	26.2%	459	$5,577	$66	$181
st17045	San Berna	34.1	-115.3	Pre-Existing (BLM)		Dry	200	26.8%	469	$4,611	$66	$152
st17046	San Berna	34.1	-115.3	Pre-Existing (BLM)		Dry	200	26.8%	469	$4,717	$66	$155
st17047	San Berna	34.1	-115.3	Pre-Existing (BLM)		Dry	200	26.8%	469	$4,704	$66	$154
st17048	San Berna	34.2	-115.3	Pre-Existing (BLM)		Dry	200	26.8%	469	$4,825	$66	$158
st17049	San Berna	34.2	-115.3	Pre-Existing (BLM)		Dry	200	26.8%	469	$4,928	$66	$160
st17050	San Berna	34.2	-115.3	Pre-Existing (BLM)		Dry	200	26.8%	469	$4,963	$66	$161
st17051	San Berna	34.2	-115.3	Pre-Existing (BLM)		Dry	200	26.8%	469	$5,223	$66	$168
st17052	San Berna	34.2	-115.3	Pre-Existing (BLM)		Dry	200	26.8%	469	$5,203	$66	$167
st17053	San Berna	34.3	-115.3	Pre-Existing (BLM)		Dry	200	26.8%	469	$5,253	$66	$169
st17054	San Berna	34.3	-115.3	Pre-Existing (BLM)		Dry	200	26.8%	469	$4,974	$66	$161
st17056	San Berna	34.3	-115.3	Pre-Existing (BLM)		Dry	200	26.5%	465	$4,630	$66	$154
st17065	Riverside	34.0	-115.3	Proxy		Dry	200	27.3%	479	$4,815	$66	$154
st17069	San Berna	34.1	-115.3	Pre-Existing (BLM)		Dry	200	26.8%	469	$5,073	$66	$164
st17072	San Berna	34.2	-115.3	Pre-Existing (BLM)		Dry	200	26.8%	469	$5,974	$66	$187
st17073	San Berna	34.2	-115.3	Pre-Existing (BLM)		Dry	200	26.8%	469	$6,919	$66	$211
st17076	San Berna	34.2	-115.3	Pre-Existing (BLM)		Dry	200	26.8%	469	$5,698	$66	$180
st17077	San Berna	34.3	-115.3	Pre-Existing (BLM)		Dry	200	26.8%	469	$4,985	$66	$162
st17078	San Berna	34.3	-115.3	Pre-Existing (BLM)		Dry	200	26.8%	469	$4,591	$66	$152
st17100	San Berna	34.2	-115.2	Pre-Existing (BLM)		Dry	200	26.8%	469	$4,957	$66	$161
st17101	San Berna	34.3	-115.2	Pre-Existing (BLM)		Dry	200	26.8%	469	$4,399	$66	$147
st17102	San Berna	34.3	-115.2	Pre-Existing (BLM)		Dry	200	26.8%	469	$4,688	$66	$154
st17115	Riverside	34.1	-115.2	Pre-Existing (BLM)		Dry	200	27.3%	479	$5,178	$66	$163
st17124	San Berna	34.2	-115.2	Pre-Existing (BLM)		Dry	200	26.8%	469	$4,466	$66	$148
st17125	San Berna	34.3	-115.2	Pre-Existing (BLM)		Dry	200	26.8%	469	$4,399	$66	$147
st17140	Riverside	34.1	-115.2	Pre-Existing (BLM)		Dry	200	27.0%	473	$5,133	$66	$164
st17141	San Berna	34.1	-115.2	Pre-Existing (BLM)		Dry	200	25.8%	453	$5,271	$66	$175
st17142	San Berna	34.1	-115.2	Pre-Existing (BLM)		Dry	200	25.8%	453	$6,992	$66	$221
st17147	San Berna	34.2	-115.2	Proxy		Dry	200	24.7%	432	$4,569	$66	$164
st17164	Riverside	34.1	-115.2	Pre-Existing (BLM)		Dry	200	27.0%	473	$4,899	$66	$158
st17165	San Berna	34.1	-115.2	Pre-Existing (BLM)		Dry	200	25.8%	453	$4,999	$66	$168
st17166	San Berna	34.1	-115.2	Pre-Existing (BLM)		Dry	200	25.8%	453	$5,105	$66	$171
st17167	San Berna	34.1	-115.2	Pre-Existing (BLM)		Dry	200	25.8%	453	$7,009	$66	$221
st17187	Riverside	34.1	-115.1	Pre-Existing (BLM)		Dry	200	27.0%	473	$4,939	$66	$159
st17188	Riverside	34.1	-115.1	Pre-Existing (BLM)		Dry	200	27.0%	473	$4,811	$66	$156
st17189	San Berna	34.1	-115.1	Pre-Existing (BLM)		Dry	200	25.8%	453	$4,753	$66	$161
st17190	San Berna	34.1	-115.1	Pre-Existing (BLM)		Dry	200	25.8%	453	$4,906	$66	$165
st17191	San Berna	34.1	-115.1	Pre-Existing (BLM)		Dry	200	25.8%	453	$5,578	$66	$183
st17192	San Berna	34.2	-115.1	Pre-Existing (BLM)		Dry	200	25.8%	453	$7,228	$66	$227
st17193	San Berna	34.2	-115.1	Pre-Existing (BLM)		Dry	200	25.8%	453	$5,103	$66	$171
st17196	San Berna	34.2	-115.1	Proxy		Dry	200	24.7%	432	$4,355	$66	$158
st17212	Riverside	34.1	-115.1	Proxy		Dry	200	27.0%	473	$4,695	$66	$153
st17213	San Berna	34.1	-115.1	Proxy		Dry	200	25.8%	453	$4,650	$66	$159
st17214	San Berna	34.1	-115.1	Pre-Existing (BLM)		Dry	200	25.8%	453	$4,627	$66	$158
st17215	San Berna	34.1	-115.1	Pre-Existing (BLM)		Dry	200	25.8%	453	$4,837	$66	$164
st17216	San Berna	34.2	-115.1	Pre-Existing (BLM)		Dry	200	25.8%	453	$6,044	$66	$196
st17217	San Berna	34.2	-115.1	Pre-Existing (BLM)		Dry	200	25.8%	453	$4,891	$66	$165
st17218	San Berna	34.2	-115.1	Pre-Existing (BLM)		Dry	200	24.7%	432	$4,428	$66	$160
st17236	Riverside	34.1	-115.1	Proxy		Dry	200	27.2%	476	$4,631	$66	$150
st17238	San Berna	34.1	-115.1	Pre-Existing (BLM)		Dry	200	26.2%	460	$4,516	$66	$153
st17239	San Berna	34.1	-115.1	Pre-Existing (BLM)		Dry	200	26.2%	460	$4,440	$66	$151
st17240	San Berna	34.2	-115.1	Pre-Existing (BLM)		Dry	200	26.2%	460	$4,657	$66	$156
st17241	San Berna	34.2	-115.1	Pre-Existing (BLM)		Dry	200	26.2%	460	$4,439	$66	$151
st17242	San Berna	34.2	-115.1	Pre-Existing (BLM)		Dry	200	25.8%	452	$4,330	$66	$150

RETI Phase 1B Draft Report
Appendix E
Solar Thermal Projects

Project ID	County	Lat	Long	Type	Williamson Act Intersection	Cooling	MW	CF, %	Generation, GWh/yr	Capital Cost, $/kWac	Fixed O&M, $/kWac-yr	LCOE, $/MWh
st17243	San Berna	34.2	-115.1	Proxy		Dry	200	25.8%	452	$4,319	$66	$150
st17262	San Berna	34.1	-115.1	Pre-Existing (BLM)		Dry	200	26.2%	460	$4,476	$66	$151
st17263	San Berna	34.1	-115.1	Pre-Existing (BLM)		Dry	200	26.2%	460	$4,404	$66	$150
st17264	San Berna	34.2	-115.1	Pre-Existing (BLM)		Dry	200	26.2%	460	$4,468	$66	$151
st17265	San Berna	34.2	-115.1	Pre-Existing (BLM)		Dry	200	26.2%	460	$4,326	$66	$148
st17266	San Berna	34.2	-115.1	Pre-Existing (BLM)		Dry	200	25.8%	452	$4,309	$66	$150
st17267	San Berna	34.2	-115.1	Proxy		Dry	200	25.8%	452	$4,300	$66	$149
st17285	San Berna	34.1	-115.0	Proxy		Dry	200	26.2%	460	$4,572	$66	$154
st17287	San Berna	34.1	-115.0	Proxy		Dry	200	26.2%	460	$4,393	$66	$149
st17288	San Berna	34.2	-115.0	Pre-Existing (BLM)		Dry	200	26.2%	460	$4,453	$66	$151
st17289	San Berna	34.2	-115.0	Pre-Existing (BLM)		Dry	200	26.2%	460	$4,354	$66	$148
st17291	San Berna	34.2	-115.0	Pre-Existing (BLM)		Dry	200	25.8%	452	$4,385	$66	$152
st17310	San Berna	34.1	-115.0	Pre-Existing (BLM)		Dry	200	26.2%	460	$4,456	$66	$151
st17311	San Berna	34.1	-115.0	Pre-Existing (BLM)		Dry	200	26.2%	460	$4,471	$66	$151
st17312	San Berna	34.2	-115.0	Pre-Existing (BLM)		Dry	200	26.2%	460	$4,474	$66	$151
st17315	San Berna	34.2	-115.0	Pre-Existing (BLM)		Dry	200	25.8%	452	$4,736	$66	$161
st17339	San Berna	34.2	-115.0	Pre-Existing (BLM)		Dry	200	27.3%	479	$4,868	$66	$155
st17357	San Berna	34.1	-115.0	Pre-Existing (BLM)		Dry	200	26.8%	470	$4,737	$66	$155
st17363	San Berna	34.2	-115.0	Pre-Existing (BLM)		Dry	200	27.3%	479	$4,894	$66	$156
st17380	Riverside	34.1	-114.9	Proxy		Dry	200	27.3%	479	$4,659	$66	$150
st17381	San Berna	34.1	-114.9	Pre-Existing (BLM)		Dry	200	26.8%	470	$4,664	$66	$153
st17382	San Berna	34.1	-114.9	Pre-Existing (BLM)		Dry	200	26.8%	470	$4,614	$66	$152
st17387	San Berna	34.2	-114.9	Pre-Existing (BLM)		Dry	200	27.3%	479	$4,939	$66	$157
st17404	Riverside	34.1	-114.9	Proxy		Dry	200	27.3%	479	$4,550	$66	$147
st17405	San Berna	34.1	-114.9	Proxy		Dry	200	26.8%	470	$4,552	$66	$150
st17406	San Berna	34.1	-114.9	Pre-Existing (BLM)		Dry	200	26.8%	470	$4,588	$66	$151
st17407	San Berna	34.1	-114.9	Pre-Existing (BLM)		Dry	200	26.8%	470	$4,701	$66	$154
st17408	San Berna	34.2	-114.9	Pre-Existing (BLM)		Dry	200	26.8%	470	$4,704	$66	$154
st17409	San Berna	34.2	-114.9	Pre-Existing (BLM)		Dry	200	26.8%	470	$4,874	$66	$158
st17428	Riverside	34.1	-114.9	Proxy		Dry	200	27.3%	479	$4,610	$66	$149
st17430	San Berna	34.1	-114.9	Pre-Existing (BLM)		Dry	200	26.8%	470	$4,627	$66	$152
st17431	San Berna	34.1	-114.9	Pre-Existing (BLM)		Dry	200	26.8%	470	$4,683	$66	$153
st17432	San Berna	34.2	-114.9	Pre-Existing (BLM)		Dry	200	26.8%	470	$4,769	$66	$156
st17433	San Berna	34.2	-114.9	Pre-Existing (BLM)		Dry	200	26.8%	470	$4,887	$66	$159
st17449	Riverside	34.0	-114.9	Proxy		Dry	200	26.5%	465	$4,531	$66	$151
st17450	Riverside	34.0	-114.9	Proxy		Dry	200	26.5%	465	$4,482	$66	$150
st17452	Riverside	34.1	-114.9	Proxy		Dry	200	26.5%	465	$4,637	$66	$154
st17453	San Berna	34.1	-114.9	Proxy		Dry	200	27.1%	474	$4,739	$66	$154
st17454	San Berna	34.1	-114.9	Pre-Existing (BLM)		Dry	200	27.1%	474	$4,790	$66	$155
st17474	Riverside	34.0	-114.8	Proxy		Dry	200	26.5%	465	$4,427	$66	$149
st17476	Riverside	34.1	-114.8	Proxy		Dry	200	26.5%	465	$4,696	$66	$155
st17499	Riverside	34.1	-114.8	Proxy		Dry	200	26.5%	465	$4,499	$66	$150
st17523	Riverside	34.1	-114.8	Proxy		Dry	200	26.5%	465	$4,477	$66	$150
st17546	Riverside	34.0	-114.8	Proxy		Dry	200	26.8%	469	$4,492	$66	$149
st17570	Riverside	34.0	-114.7	Proxy		Dry	200	26.8%	469	$4,537	$66	$150
st17571	Riverside	34.1	-114.7	Proxy		Dry	200	26.8%	469	$4,550	$66	$150
st17572	Riverside	34.1	-114.7	Proxy		Dry	200	26.8%	469	$4,624	$66	$152
st17573	San Berna	34.1	-114.7	Proxy		Dry	200	26.6%	466	$4,601	$66	$153
st17597	San Berna	34.1	-114.7	Proxy		Dry	200	26.6%	466	$4,432	$66	$148
st17741	San Berna	34.1	-114.6	Proxy		Dry	200	26.9%	472	$4,611	$66	$151
st17765	San Berna	34.1	-114.5	Proxy		Dry	200	26.9%	472	$4,506	$66	$148
st17789	San Berna	34.1	-114.5	Proxy		Dry	200	26.9%	472	$4,694	$66	$153
st17836	Riverside	34.1	-114.5	Proxy		Dry	200	25.8%	452	$4,627	$66	$158
st17888	San Berna	34.2	-114.4	Proxy		Dry	200	27.0%	472	$4,662	$66	$152
st17889	San Berna	34.2	-114.4	Proxy		Dry	200	27.0%	472	$4,679	$66	$153
st17902	San Berna	34.5	-114.4	Proxy		Dry	200	26.6%	467	$4,619	$66	$153
st17912	San Berna	34.2	-114.4	Proxy		Dry	200	27.0%	472	$4,641	$66	$152
st19139	Santa Barb	34.7	-120.2	Proxy	Yes	Dry	200	19.7%	346	$4,718	$66	$210
st19140	Santa Barb	34.7	-120.2	Proxy	Yes	Dry	200	19.7%	346	$4,974	$66	$219
st19141	Santa Barb	34.8	-120.2	Proxy	Yes	Dry	200	19.7%	346	$4,882	$66	$216
st19165	Santa Barb	34.8	-120.1	Proxy	Yes	Dry	200	19.7%	346	$5,054	$66	$222
st19232	Santa Barb	34.7	-120.1	Proxy		Dry	200	19.7%	346	$4,877	$66	$216
st19257	Santa Barb	34.7	-120.1	Proxy	Yes	Dry	200	19.7%	346	$4,573	$66	$205
st19676	Santa Barb	34.9	-119.6	Proxy		Dry	200	20.1%	352	$4,669	$66	$204
st19818	Santa Barb	34.9	-119.5	Proxy	Yes	Dry	200	20.3%	355	$4,735	$66	$205
st20606	Los Angele	34.8	-118.7	Proxy		Dry	200	22.7%	397	$4,759	$66	$184
st20630	Los Angele	34.8	-118.7	Proxy		Dry	200	22.5%	394	$4,603	$66	$181
st20631	Kern	34.8	-118.7	Proxy	Yes	Dry	200	22.0%	385	$4,430	$66	$179
st20654	Los Angele	34.8	-118.6	Proxy		Dry	200	22.5%	394	$4,617	$66	$181
st20679	Kern	34.8	-118.6	Proxy		Dry	200	22.0%	385	$4,531	$66	$182
st20703	Kern	34.8	-118.6	Proxy		Dry	200	22.0%	385	$4,489	$66	$181
st20750	Los Angele	34.8	-118.5	Proxy		Dry	200	22.6%	397	$4,544	$66	$178
st20751	Kern	34.8	-118.5	Proxy		Dry	200	23.9%	419	$4,542	$66	$168
st20773	Los Angele	34.8	-118.5	Proxy		Dry	200	22.6%	397	$4,668	$66	$181
st20774	Los Angele	34.8	-118.5	Proxy		Dry	200	22.6%	397	$4,336	$66	$171
st20798	Los Angele	34.8	-118.5	Proxy		Dry	200	22.6%	397	$4,546	$66	$178

Project ID	County	Lat	Long	Type	Williamson Act Intersection	Cooling	MW	CF, %	Generation, GWh/yr	Capital Cost, $/kWac	Fixed O&M, $/kWac-yr	LCOE, $/MWh
st20800	Kern	34.8	-118.5	Proxy	Yes	Dry	200	23.9%	419	$4,662	$66	$172
st20844	Los Angele	34.7	-118.5	Proxy		Dry	200	23.7%	415	$4,565	$66	$171
st20845	Los Angele	34.8	-118.5	Proxy		Dry	200	23.7%	415	$4,544	$66	$170
st20848	Kern	34.8	-118.5	Proxy		Dry	200	25.0%	438	$4,457	$66	$158
st20868	Los Angele	34.7	-118.4	Proxy		Dry	200	23.7%	415	$4,562	$66	$171
st20869	Los Angele	34.8	-118.4	Proxy		Dry	200	23.7%	415	$4,468	$66	$168
st20873	Kern	34.9	-118.4	Proxy		Dry	200	25.0%	438	$4,570	$66	$162
st20893	Los Angele	34.8	-118.4	Proxy		Dry	200	23.7%	415	$4,915	$66	$181
st20898	Kern	34.9	-118.4	Proxy		Dry	200	25.0%	438	$4,643	$66	$164
st20917	Los Angele	34.8	-118.4	Proxy		Dry	200	24.7%	433	$4,638	$66	$165
st20918	Los Angele	34.8	-118.4	Proxy		Dry	200	24.7%	433	$4,383	$66	$158
st20922	Kern	34.9	-118.4	Proxy		Dry	200	25.4%	445	$4,645	$66	$161
st20938	Los Angele	34.7	-118.4	Proxy		Dry	200	24.7%	433	$4,622	$66	$165
st20941	Los Angele	34.8	-118.4	Proxy		Dry	200	24.7%	433	$4,562	$66	$163
st20942	Los Angele	34.8	-118.4	Proxy		Dry	200	24.7%	433	$4,490	$66	$161
st20963	Los Angele	34.7	-118.3	Proxy		Dry	200	24.7%	433	$4,437	$66	$160
st20965	Los Angele	34.8	-118.3	Proxy		Dry	200	24.7%	433	$4,353	$66	$157
st20966	Los Angele	34.8	-118.3	Proxy		Dry	200	24.7%	433	$4,329	$66	$157
st20986	Los Angele	34.7	-118.3	Proxy		Wet	200	25.8%	451	$4,349	$66	$151
st20989	Los Angele	34.8	-118.3	Proxy		Dry	200	24.7%	433	$4,496	$66	$161
st20994	Kern	34.9	-118.3	Proxy		Dry	200	25.4%	445	$4,686	$66	$162
st20995	Kern	34.9	-118.3	Proxy		Dry	200	26.1%	457	$4,612	$66	$156
st20996	Kern	34.9	-118.3	Proxy		Dry	200	26.1%	457	$4,661	$66	$157
st20997	Kern	34.9	-118.3	Proxy		Dry	200	26.1%	457	$4,708	$66	$159
st21010	Los Angele	34.7	-118.3	Proxy		Wet	200	26.4%	463	$4,205	$66	$143
st21013	Los Angele	34.8	-118.3	Proxy		Dry	200	25.4%	445	$4,354	$66	$153
st21015	Kern	34.8	-118.3	Proxy		Dry	200	26.1%	458	$4,367	$66	$149
st21016	Kern	34.8	-118.3	Proxy		Dry	200	26.1%	458	$4,423	$66	$151
st21020	Kern	34.9	-118.3	Proxy		Dry	200	26.7%	468	$4,533	$66	$150
st21021	Kern	34.9	-118.3	Proxy		Dry	200	26.7%	468	$4,721	$66	$155
st21023	Kern	35.0	-118.3	Proxy		Dry	200	26.7%	468	$4,872	$66	$159
st21036	Los Angele	34.7	-118.3	Proxy		Wet	200	26.4%	463	$4,145	$66	$142
st21039	Kern	34.8	-118.3	Proxy		Dry	200	26.1%	458	$4,300	$66	$147
st21046	Kern	35.0	-118.3	Proxy		Dry	200	26.7%	468	$4,917	$66	$160
st21063	Kern	34.8	-118.2	Proxy		Dry	200	26.1%	458	$4,300	$66	$147
st21069	Kern	34.9	-118.2	Proxy		Dry	200	26.7%	468	$4,532	$66	$150
st21070	Kern	35.0	-118.2	Proxy		Dry	200	26.7%	468	$4,605	$66	$152
st21071	Kern	35.0	-118.2	Proxy		Dry	200	26.7%	468	$4,573	$66	$151
st21072	Kern	35.0	-118.2	Proxy		Dry	200	26.3%	462	$4,605	$66	$154
st21086	Los Angele	34.8	-118.2	Proxy		Wet	200	26.4%	463	$4,149	$66	$142
st21094	Kern	35.0	-118.2	Proxy		Dry	200	26.7%	468	$5,129	$66	$166
st21095	Kern	35.0	-118.2	Proxy		Dry	200	26.7%	468	$5,595	$66	$178
st21096	Kern	35.0	-118.2	Proxy		Dry	200	26.3%	462	$4,805	$66	$160
st21115	Kern	34.9	-118.2	Proxy		Wet	200	28.3%	495	$4,607	$66	$144
st21117	Kern	34.9	-118.2	Proxy		Dry	200	27.2%	477	$4,693	$66	$152
st21139	Kern	34.9	-118.2	Proxy		Dry	200	27.2%	477	$4,469	$66	$146
st21142	Kern	35.0	-118.2	Proxy		Dry	200	27.2%	477	$4,519	$66	$147
stm21182	Los Angele	34.8	-118.1	Pre-Existing (Military)		Wet	200	27.0%	474	$4,147	$66	$139
st21192	Kern	35.0	-118.1	Proxy		Dry	200	26.3%	461	$4,541	$66	$153
st21203	Los Angele	34.7	-118.1	Proxy		Wet	200	27.0%	474	$4,243	$66	$141
st21216	Kern	35.0	-118.1	Proxy		Dry	200	26.3%	461	$4,657	$66	$156
st21228	Los Angele	34.7	-118.1	Proxy		Wet	200	27.7%	486	$4,187	$66	$136
st21240	Kern	35.0	-118.1	Proxy		Dry	200	27.3%	478	$4,796	$66	$154
st21247	Los Angele	34.6	-118.0	Proxy		Wet	200	27.2%	476	$4,242	$66	$140
st21249	Los Angele	34.7	-118.0	Proxy		Wet	200	27.2%	476	$4,217	$66	$140
st21263	Kern	35.0	-118.0	Pre-Existing (BLM)		Dry	200	27.2%	476	$4,855	$66	$156
st21264	Kern	35.0	-118.0	Proxy		Dry	200	27.3%	478	$4,797	$66	$154
st21269	Los Angele	34.6	-118.0	Proxy		Wet	200	27.2%	476	$4,311	$66	$142
st21270	Los Angele	34.6	-118.0	Proxy		Wet	200	27.2%	476	$4,275	$66	$141
st21271	Los Angele	34.6	-118.0	Proxy		Wet	200	27.2%	476	$4,318	$66	$142
st21287	Kern	35.0	-118.0	Pre-Existing (BLM)		Dry	200	27.2%	476	$4,746	$66	$153
st21288	Kern	35.0	-118.0	Pre-Existing (BLM)		Dry	200	27.3%	478	$4,640	$66	$150
st21291	Los Angele	34.6	-118.0	Proxy		Wet	200	26.9%	471	$4,466	$66	$148
st21292	Los Angele	34.6	-118.0	Proxy		Wet	200	26.9%	471	$4,370	$66	$145
st21293	Los Angele	34.6	-118.0	Proxy		Wet	200	27.2%	476	$4,391	$66	$144
st21294	Los Angele	34.6	-118.0	Proxy		Wet	200	27.2%	476	$4,306	$66	$142
st21295	Los Angele	34.6	-118.0	Proxy		Dry	200	26.1%	458	$4,483	$66	$152
st21297	Los Angele	34.7	-118.0	Proxy		Dry	200	26.1%	458	$4,441	$66	$151
st21299	Los Angele	34.7	-118.0	Proxy		Dry	200	26.4%	463	$4,422	$66	$149
st21311	Kern	35.0	-118.0	Pre-Existing (BLM)		Dry	200	27.2%	476	$4,884	$66	$157
st21317	Los Angele	34.6	-118.0	Proxy		Dry	200	26.9%	471	$4,519	$66	$149
st21318	Los Angele	34.6	-118.0	Proxy		Dry	200	26.9%	471	$4,425	$66	$147
st21320	Los Angele	34.7	-118.0	Proxy		Dry	200	26.9%	471	$4,443	$66	$147
st21323	Los Angele	34.7	-118.0	Proxy		Dry	200	26.5%	465	$4,400	$66	$148
st21341	Los Angele	34.6	-117.9	Proxy		Dry	200	26.9%	471	$4,491	$66	$148
st21344	Los Angele	34.7	-117.9	Proxy		Dry	200	26.9%	471	$4,458	$66	$147

RETI Phase 1B Draft Report
Appendix E
Solar Thermal Projects

Project ID	County	Lat	Long	Type	Williamson Act Intersection	Cooling	MW	CF, %	Generation, GWh/yr	Capital Cost, $/kWac	Fixed O&M, $/kWac-yr	LCOE, $/MWh
st21347	Los Angele	34.7	-117.9	Proxy		Dry	200	26.5%	465	$4,412	$66	$148
st21362	Los Angele	34.5	-117.9	Proxy		Dry	200	26.2%	460	$4,645	$66	$156
st21365	Los Angele	34.6	-117.9	Proxy		Dry	200	26.9%	471	$4,518	$66	$149
st21367	Los Angele	34.6	-117.9	Proxy		Dry	200	26.9%	471	$4,810	$66	$156
st21368	Los Angele	34.7	-117.9	Proxy		Dry	200	26.9%	471	$4,442	$66	$147
st21370	Los Angele	34.7	-117.9	Proxy		Dry	200	26.5%	465	$4,398	$66	$148
st21386	Los Angele	34.5	-117.9	Proxy		Dry	200	26.2%	460	$4,720	$66	$158
st21387	Los Angele	34.6	-117.9	Proxy		Dry	200	26.2%	460	$4,594	$66	$155
st21389	Los Angele	34.6	-117.9	Proxy		Dry	200	26.9%	471	$4,553	$66	$150
st21392	Los Angele	34.7	-117.9	Proxy		Dry	200	26.9%	471	$4,433	$66	$147
st21394	Los Angele	34.7	-117.9	Proxy		Dry	200	26.5%	465	$4,415	$66	$148
st21396	Los Angele	34.7	-117.9	Proxy		Dry	200	26.5%	465	$4,530	$66	$151
st21410	Los Angele	34.5	-117.9	Proxy		Dry	200	26.7%	467	$4,697	$66	$155
st21411	Los Angele	34.6	-117.9	Proxy		Dry	200	26.7%	467	$4,585	$66	$152
st21418	Los Angele	34.7	-117.9	Proxy		Dry	200	27.1%	475	$4,514	$66	$148
st21434	Los Angele	34.5	-117.8	Proxy		Dry	200	26.7%	467	$4,669	$66	$154
st21435	Los Angele	34.6	-117.8	Proxy		Dry	200	26.7%	467	$4,571	$66	$152
st21458	Los Angele	34.5	-117.8	Proxy		Dry	200	26.7%	467	$4,655	$66	$154
st21459	Los Angele	34.6	-117.8	Proxy		Dry	200	26.7%	467	$4,539	$66	$151
st21460	Los Angele	34.6	-117.8	Proxy		Dry	200	26.7%	467	$4,504	$66	$150
st21482	Los Angele	34.5	-117.8	Proxy		Dry	200	26.7%	467	$4,699	$66	$155
st21483	Los Angele	34.6	-117.8	Proxy		Dry	200	26.7%	467	$4,592	$66	$152
st21484	Los Angele	34.6	-117.8	Proxy		Dry	200	26.7%	467	$4,588	$66	$152
st21485	Los Angele	34.6	-117.8	Proxy		Dry	200	26.9%	472	$4,514	$66	$149
st21487	Los Angele	34.6	-117.8	Proxy		Dry	200	26.9%	472	$4,609	$66	$151
st21506	Los Angele	34.5	-117.8	Proxy		Dry	200	26.9%	471	$4,710	$66	$154
st21507	Los Angele	34.6	-117.8	Proxy		Dry	200	26.9%	471	$4,640	$66	$152
st21508	Los Angele	34.6	-117.8	Proxy		Dry	200	26.9%	471	$4,561	$66	$150
st21509	Los Angele	34.6	-117.8	Proxy		Dry	200	27.3%	478	$4,534	$66	$147
st21510	Los Angele	34.6	-117.8	Proxy		Dry	200	27.3%	478	$4,505	$66	$146
st21511	Los Angele	34.6	-117.8	Proxy		Dry	200	27.3%	478	$4,533	$66	$147
st21530	Los Angele	34.5	-117.7	Proxy		Dry	200	26.9%	471	$4,725	$66	$154
st21531	Los Angele	34.6	-117.7	Proxy		Dry	200	26.9%	471	$4,616	$66	$152
st21532	Los Angele	34.6	-117.7	Proxy		Dry	200	26.9%	471	$4,687	$66	$153
st21533	Los Angele	34.6	-117.7	Proxy		Dry	200	27.3%	478	$4,630	$66	$150
st21534	Los Angele	34.6	-117.7	Proxy		Dry	200	27.3%	478	$4,548	$66	$147
st21536	Los Angele	34.7	-117.7	Proxy		Dry	200	27.3%	478	$4,574	$66	$148
st21538	Los Angele	34.7	-117.7	Proxy		Dry	200	27.7%	485	$4,548	$66	$145
st21554	Los Angele	34.5	-117.7	Proxy		Dry	200	26.9%	471	$4,699	$66	$154
st21556	Los Angele	34.6	-117.7	Proxy		Dry	200	26.9%	471	$4,663	$66	$153
st21557	Los Angele	34.6	-117.7	Proxy		Dry	200	27.3%	478	$4,599	$66	$149
st21558	Los Angele	34.6	-117.7	Proxy		Dry	200	27.3%	478	$4,634	$66	$150
st21559	Los Angele	34.6	-117.7	Proxy		Dry	200	27.3%	478	$4,705	$66	$151
st21560	Los Angele	34.7	-117.7	Proxy		Dry	200	27.3%	478	$4,621	$66	$149
st21562	Los Angele	34.7	-117.7	Proxy		Dry	200	27.7%	485	$4,633	$66	$148
st21579	Los Angele	34.6	-117.7	Proxy		Dry	200	26.9%	471	$4,594	$66	$151
st21581	Los Angele	34.6	-117.7	Proxy		Dry	200	27.3%	478	$4,553	$66	$148
st21583	Los Angele	34.6	-117.7	Proxy		Dry	200	27.3%	478	$4,688	$66	$151
st21584	Los Angele	34.7	-117.7	Proxy		Dry	200	27.3%	478	$4,582	$66	$148
st21585	Los Angele	34.7	-117.7	Proxy		Dry	200	27.3%	478	$4,655	$66	$150
st21586	Los Angele	34.7	-117.7	Proxy		Dry	200	27.7%	485	$4,689	$66	$149
st21602	Los Angele	34.5	-117.7	Proxy		Dry	200	26.6%	465	$4,628	$66	$154
st21605	Los Angele	34.6	-117.7	Proxy		Dry	200	27.0%	473	$4,486	$66	$147
st21606	Los Angele	34.6	-117.7	Proxy		Dry	200	27.0%	473	$4,639	$66	$151
st21609	Los Angele	34.7	-117.7	Proxy		Dry	200	27.0%	473	$4,770	$66	$155
st21625	Los Angele	34.5	-117.7	Proxy		Dry	200	26.6%	465	$4,683	$66	$155
st21626	Los Angele	34.5	-117.7	Proxy		Dry	200	26.6%	465	$4,609	$66	$153
st21627	Los Angele	34.6	-117.7	Proxy		Dry	200	26.6%	465	$4,536	$66	$151
st21628	San Berna	34.6	-117.7	Proxy		Dry	200	26.6%	465	$4,682	$66	$155
st21629	San Berna	34.6	-117.7	Proxy		Dry	200	27.0%	473	$5,036	$66	$161
st21630	San Berna	34.6	-117.7	Proxy		Dry	200	27.0%	473	$4,768	$66	$155
st21633	San Berna	34.7	-117.7	Proxy		Dry	200	27.0%	473	$4,731	$66	$154
st21649	San Berna	34.5	-117.6	Proxy		Dry	200	26.6%	465	$4,725	$66	$156
st21650	San Berna	34.5	-117.6	Proxy		Dry	200	26.6%	465	$4,632	$66	$154
st21651	San Berna	34.6	-117.6	Proxy		Dry	200	26.6%	465	$4,514	$66	$151
st21653	San Berna	34.6	-117.6	Proxy		Dry	200	27.0%	473	$4,608	$66	$150
st21654	San Berna	34.6	-117.6	Proxy		Dry	200	27.0%	473	$5,244	$66	$167
st21656	San Berna	34.7	-117.6	Proxy		Dry	200	27.0%	473	$4,664	$66	$152
st21657	San Berna	34.7	-117.6	Proxy		Dry	200	27.0%	473	$4,748	$66	$154
st21672	Kern	35.0	-117.6	Proxy		Dry	200	27.1%	476	$4,514	$66	$147
st21674	San Berna	34.5	-117.6	Proxy		Dry	200	26.6%	465	$4,590	$66	$153
st21676	San Berna	34.6	-117.6	Proxy		Dry	200	26.6%	465	$4,570	$66	$152
st21677	San Berna	34.6	-117.6	Proxy		Dry	200	27.0%	473	$4,482	$66	$147
st21679	San Berna	34.6	-117.6	Proxy		Dry	200	27.0%	473	$4,413	$66	$146
st21680	San Berna	34.7	-117.6	Proxy		Dry	200	27.0%	473	$4,571	$66	$150
st21696	San Berna	35.0	-117.6	Proxy		Dry	200	27.1%	476	$4,497	$66	$147

RETI Phase 1B Draft Report
Appendix E
Solar Thermal Projects

Project ID	County	Lat	Long	Type	Williamson Act Intersection	Cooling	MW	CF, %	Generation, GWh/yr	Capital Cost, $/kWac	Fixed O&M, $/kWac-yr	LCOE, $/MWh
st21698	San Berna	34.5	-117.6	Proxy		Dry	200	26.6%	465	$4,535	$66	$151
st21699	San Berna	34.6	-117.6	Proxy		Dry	200	26.6%	465	$4,594	$66	$153
st21700	San Berna	34.6	-117.6	Proxy		Dry	200	26.6%	465	$4,543	$66	$151
st21703	San Berna	34.6	-117.6	Proxy		Dry	200	26.5%	464	$4,520	$66	$151
st21720	San Berna	35.0	-117.6	Proxy		Dry	200	28.1%	493	$4,554	$66	$143
st21722	San Berna	34.5	-117.6	Proxy		Dry	200	26.6%	465	$4,583	$66	$152
st21723	San Berna	34.6	-117.6	Proxy		Dry	200	26.6%	465	$4,561	$66	$152
st21725	San Berna	34.6	-117.6	Proxy		Dry	200	26.5%	464	$4,518	$66	$151
st21726	San Berna	34.6	-117.6	Proxy		Dry	200	26.5%	464	$4,512	$66	$151
st21745	San Berna	34.5	-117.5	Proxy		Dry	200	26.6%	465	$4,637	$66	$154
st21746	San Berna	34.5	-117.5	Proxy		Dry	200	26.6%	465	$4,531	$66	$151
st21747	San Berna	34.6	-117.5	Proxy		Dry	200	26.6%	465	$4,602	$66	$153
st21748	San Berna	34.6	-117.5	Proxy		Dry	200	26.6%	465	$4,544	$66	$151
st21749	San Berna	34.6	-117.5	Proxy		Dry	200	26.5%	464	$4,554	$66	$152
st21769	San Berna	34.5	-117.5	Proxy		Wet	200	27.7%	485	$4,501	$66	$144
st21770	San Berna	34.5	-117.5	Proxy		Dry	200	26.6%	465	$4,548	$66	$152
st21771	San Berna	34.6	-117.5	Proxy		Dry	200	26.6%	465	$4,580	$66	$152
st21772	San Berna	34.6	-117.5	Proxy		Dry	200	26.6%	465	$4,551	$66	$152
st21773	San Berna	34.6	-117.5	Proxy		Dry	200	26.5%	464	$4,536	$66	$152
st21793	San Berna	34.5	-117.5	Proxy		Wet	200	27.7%	485	$4,428	$66	$142
st21794	San Berna	34.5	-117.5	Proxy		Wet	200	27.7%	485	$4,441	$66	$143
st21796	San Berna	34.6	-117.5	Proxy		Wet	200	27.7%	485	$4,362	$66	$141
st21798	San Berna	34.6	-117.5	Proxy		Dry	200	26.7%	468	$4,624	$66	$153
st21817	San Berna	34.5	-117.5	Proxy		Wet	200	27.7%	485	$4,363	$66	$141
st21822	San Berna	34.6	-117.5	Proxy		Dry	200	26.7%	468	$4,503	$66	$150
st21847	San Berna	34.6	-117.4	Proxy		Dry	200	26.7%	468	$4,515	$66	$150
st21848	San Berna	34.7	-117.4	Proxy		Dry	200	26.7%	468	$4,666	$66	$154
st21872	San Berna	34.7	-117.4	Proxy		Dry	200	26.7%	468	$4,466	$66	$149
st21919	San Berna	34.6	-117.4	Proxy		Dry	200	27.2%	476	$5,133	$66	$163
st21964	San Berna	34.6	-117.3	Pre-Existing (BLM)		Dry	200	27.0%	474	$5,559	$66	$175
st21965	San Berna	34.6	-117.3	Pre-Existing (BLM)		Dry	200	27.2%	476	$6,772	$66	$205
st21971	San Berna	34.7	-117.3	Pre-Existing (BLM)		Dry	200	27.1%	474	$5,641	$66	$177
st21973	San Berna	34.8	-117.3	Proxy		Dry	200	27.1%	474	$4,763	$66	$154
st21988	San Berna	34.6	-117.3	Pre-Existing (BLM)		Dry	200	27.0%	474	$5,171	$66	$165
st21989	San Berna	34.6	-117.3	Pre-Existing (BLM)		Dry	200	27.2%	476	$7,489	$66	$223
st21990	San Berna	34.6	-117.3	Pre-Existing (BLM)		Dry	200	27.2%	476	$6,740	$66	$204
st21991	San Berna	34.6	-117.3	Pre-Existing (BLM)		Dry	200	27.2%	476	$6,506	$66	$198
st21993	San Berna	34.7	-117.3	Pre-Existing (BLM)		Dry	200	27.2%	476	$5,476	$66	$172
st21994	San Berna	34.7	-117.3	Pre-Existing (BLM)		Dry	200	27.1%	474	$5,339	$66	$169
st21995	San Berna	34.7	-117.3	Pre-Existing (BLM)		Dry	200	27.1%	474	$5,674	$66	$177
st21996	San Berna	34.7	-117.3	Pre-Existing (BLM)		Dry	200	27.1%	474	$5,174	$66	$165
st21997	San Berna	34.8	-117.3	Proxy		Dry	200	27.1%	474	$4,897	$66	$158
st22012	San Berna	34.6	-117.3	Pre-Existing (BLM)		Dry	200	27.4%	479	$5,269	$66	$165
st22013	San Berna	34.6	-117.3	Pre-Existing (BLM)		Dry	200	26.5%	464	$5,234	$66	$170
st22014	San Berna	34.6	-117.3	Pre-Existing (BLM)		Dry	200	26.5%	464	$5,624	$66	$180
st22015	San Berna	34.6	-117.3	Pre-Existing (BLM)		Dry	200	26.5%	464	$6,075	$66	$192
st22017	San Berna	34.7	-117.3	Pre-Existing (BLM)		Dry	200	26.5%	464	$5,413	$66	$174
st22018	San Berna	34.7	-117.3	Pre-Existing (BLM)		Dry	200	27.2%	477	$6,283	$66	$192
st22019	San Berna	34.7	-117.3	Pre-Existing (BLM)		Dry	200	27.2%	477	$6,586	$66	$200
st22020	San Berna	34.7	-117.3	Pre-Existing (BLM)		Dry	200	27.2%	477	$4,985	$66	$159
st22021	San Berna	34.8	-117.3	Proxy		Dry	200	27.2%	477	$4,686	$66	$151
st22037	San Berna	34.6	-117.2	Pre-Existing (BLM)		Dry	200	26.5%	464	$4,762	$66	$157
st22038	San Berna	34.6	-117.2	Pre-Existing (BLM)		Dry	200	26.5%	464	$5,202	$66	$169
st22039	San Berna	34.6	-117.2	Pre-Existing (BLM)		Dry	200	26.5%	464	$5,797	$66	$184
st22041	San Berna	34.7	-117.2	Pre-Existing (BLM)		Dry	200	26.5%	464	$5,541	$66	$178
st22042	San Berna	34.7	-117.2	Pre-Existing (BLM)		Dry	200	27.2%	477	$5,862	$66	$181
st22043	San Berna	34.7	-117.2	Pre-Existing (BLM)		Dry	200	27.2%	477	$5,207	$66	$165
st22044	San Berna	34.7	-117.2	Proxy		Dry	200	27.2%	477	$4,675	$66	$151
st22045	San Berna	34.8	-117.2	Proxy		Dry	200	27.2%	477	$4,628	$66	$150
st22056	San Berna	35.0	-117.2	Pre-Existing (BLM)		Dry	200	26.3%	461	$4,841	$66	$161
st22062	San Berna	34.6	-117.2	Proxy		Dry	200	26.5%	464	$4,620	$66	$154
st22068	San Berna	34.7	-117.2	Proxy		Dry	200	27.2%	477	$4,684	$66	$151
st22077	San Berna	34.9	-117.2	Proxy		Dry	200	27.6%	484	$4,610	$66	$147
st22080	San Berna	35.0	-117.2	Pre-Existing (BLM)		Dry	200	26.3%	461	$4,507	$66	$152
st22129	San Berna	34.5	-117.1	Proxy		Wet	200	29.0%	509	$4,732	$66	$143
st22130	San Berna	34.5	-117.1	Proxy		Wet	200	29.0%	509	$4,488	$66	$137
st22143	San Berna	34.8	-117.1	Proxy		Dry	200	26.9%	472	$4,647	$66	$152
st22146	San Berna	34.9	-117.1	Proxy		Dry	200	26.9%	472	$4,523	$66	$149
st22166	San Berna	34.8	-117.1	Proxy		Dry	200	27.5%	481	$4,686	$66	$150
st22216	San Berna	34.8	-117.1	Proxy		Wet	200	28.5%	499	$4,640	$66	$144
st22239	San Berna	34.8	-117.0	Proxy		Dry	200	27.2%	477	$4,711	$66	$152
st22260	San Berna	34.7	-117.0	Proxy		Dry	200	27.2%	476	$4,622	$66	$150
st22298	San Berna	34.5	-117.0	Pre-Existing (BLM)		Dry	200	26.3%	462	$9,023	$66	$270
st22322	San Berna	34.5	-116.9	Pre-Existing (BLM)		Dry	200	26.3%	462	$4,674	$66	$156
st22323	San Berna	34.6	-116.9	Proxy		Dry	200	26.3%	462	$4,483	$66	$151
st22324	San Berna	34.6	-116.9	Pre-Existing (BLM)		Dry	200	26.3%	462	$4,885	$66	$162

RETI Phase 1B Draft Report
Appendix E
Solar Thermal Projects

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st22325	San Berna	34.6	-116.9	Pre-Existing (BLM)		Dry	200	27.9%	488	$5,673	$66	$172
st22345	San Berna	34.5	-116.9	Pre-Existing (BLM)		Dry	200	26.3%	462	$4,300	$66	$146
st22347	San Berna	34.6	-116.9	Pre-Existing (BLM)		Dry	200	26.3%	462	$4,698	$66	$157
st22348	San Berna	34.6	-116.9	Pre-Existing (BLM)		Dry	200	26.3%	462	$5,270	$66	$172
st22370	San Berna	34.5	-116.9	Pre-Existing (BLM)		Dry	200	26.3%	462	$4,451	$66	$150
st22371	San Berna	34.6	-116.9	Pre-Existing (BLM)		Dry	200	26.3%	462	$5,219	$66	$170
st22372	San Berna	34.6	-116.9	Pre-Existing (BLM)		Dry	200	26.3%	462	$5,610	$66	$181
st22394	San Berna	34.5	-116.9	Pre-Existing (BLM)		Dry	200	27.6%	483	$4,605	$66	$147
st22395	San Berna	34.6	-116.9	Pre-Existing (BLM)		Dry	200	27.6%	483	$4,788	$66	$152
st22396	San Berna	34.6	-116.9	Pre-Existing (BLM)		Dry	200	27.6%	483	$5,077	$66	$159
st22417	San Berna	34.5	-116.9	Proxy		Dry	200	27.6%	483	$4,584	$66	$147
st22515	San Berna	34.6	-116.8	Proxy		Dry	200	27.6%	483	$4,878	$66	$154
st22529	San Berna	34.9	-116.8	Proxy		Dry	200	25.4%	444	$4,487	$66	$157
st22564	San Berna	34.6	-116.7	Proxy		Dry	200	27.6%	483	$5,417	$66	$168
st22615	San Berna	34.6	-116.7	Pre-Existing (BLM)		Dry	200	27.8%	487	$7,092	$66	$208
st22625	San Berna	34.9	-116.7	Proxy		Dry	200	26.1%	457	$4,522	$66	$154
st22649	San Berna	34.9	-116.6	Proxy		Dry	200	26.1%	457	$4,484	$66	$153
st22657	San Berna	34.5	-116.6	Proxy		Dry	200	26.9%	471	$4,717	$66	$154
st22658	San Berna	34.5	-116.6	Proxy		Dry	200	26.9%	471	$4,621	$66	$152
st22678	San Berna	35.0	-116.6	Proxy		Dry	200	26.5%	464	$4,441	$66	$149
st22682	San Berna	34.5	-116.6	Proxy		Dry	200	27.4%	479	$4,784	$66	$153
st22695	San Berna	34.8	-116.6	Pre-Existing (BLM)		Dry	200	26.2%	459	$4,332	$66	$148
st22696	San Berna	34.8	-116.6	Pre-Existing (BLM)		Dry	200	26.2%	459	$4,343	$66	$148
st22697	San Berna	34.9	-116.6	Pre-Existing (BLM)		Dry	200	26.2%	459	$4,368	$66	$149
st22699	San Berna	34.9	-116.6	Proxy		Dry	200	26.1%	458	$4,525	$66	$153
st22700	San Berna	34.9	-116.6	Proxy		Dry	200	26.1%	458	$4,821	$66	$161
st22719	San Berna	34.8	-116.6	Pre-Existing (BLM)		Dry	200	26.2%	459	$4,336	$66	$148
st22720	San Berna	34.8	-116.6	Pre-Existing (BLM)		Dry	200	26.2%	459	$4,510	$66	$153
st22721	San Berna	34.9	-116.6	Pre-Existing (BLM)		Dry	200	26.2%	459	$4,790	$66	$160
st22722	San Berna	34.9	-116.6	Proxy		Dry	200	26.2%	459	$4,981	$66	$165
st22742	San Berna	34.8	-116.5	Pre-Existing (BLM)		Dry	200	26.2%	459	$4,914	$66	$163
st22743	San Berna	34.8	-116.5	Pre-Existing (BLM)		Dry	200	26.2%	459	$4,570	$66	$154
st22744	San Berna	34.8	-116.5	Pre-Existing (BLM)		Dry	200	26.2%	459	$5,444	$66	$177
st22745	San Berna	34.9	-116.5	Pre-Existing (BLM)		Dry	200	26.2%	459	$5,369	$66	$175
st22754	San Berna	34.5	-116.5	Proxy		Dry	200	27.4%	479	$4,846	$66	$155
st22766	San Berna	34.8	-116.5	Pre-Existing (BLM)		Dry	200	26.2%	459	$4,728	$66	$159
st22767	San Berna	34.8	-116.5	Pre-Existing (BLM)		Dry	200	26.2%	459	$4,838	$66	$161
st22771	San Berna	34.9	-116.5	Proxy		Dry	200	26.1%	458	$4,897	$66	$163
st22773	San Berna	34.9	-116.5	Proxy		Dry	200	26.1%	458	$4,339	$66	$148
st22776	San Berna	35.0	-116.5	Proxy		Dry	200	27.1%	476	$4,621	$66	$150
st22778	San Berna	34.5	-116.5	Proxy		Dry	200	27.4%	479	$4,494	$66	$146
st22780	San Berna	34.6	-116.5	Proxy		Dry	200	27.4%	479	$4,617	$66	$149
st22790	San Berna	34.8	-116.5	Pre-Existing (BLM)		Dry	200	26.2%	459	$4,675	$66	$157
st22791	San Berna	34.8	-116.5	Pre-Existing (BLM)		Dry	200	26.2%	459	$4,584	$66	$155
st22792	San Berna	34.8	-116.5	Pre-Existing (BLM)		Dry	200	26.2%	459	$4,774	$66	$160
st22813	San Berna	34.8	-116.5	Pre-Existing (BLM)		Dry	200	26.6%	466	$4,767	$66	$157
st22814	San Berna	34.8	-116.5	Pre-Existing (BLM)		Dry	200	26.6%	466	$4,653	$66	$154
st22815	San Berna	34.8	-116.5	Pre-Existing (BLM)		Dry	200	26.7%	468	$4,626	$66	$153
st22837	San Berna	34.8	-116.4	Pre-Existing (BLM)		Dry	200	26.6%	466	$4,583	$66	$152
st22838	San Berna	34.8	-116.4	Pre-Existing (BLM)		Dry	200	26.6%	466	$4,553	$66	$151
st22839	San Berna	34.8	-116.4	Pre-Existing (BLM)		Dry	200	26.7%	468	$4,635	$66	$153
st22860	San Berna	34.7	-116.4	Proxy		Dry	200	26.6%	466	$4,609	$66	$153
st22861	San Berna	34.8	-116.4	Pre-Existing (BLM)		Dry	200	26.6%	466	$4,646	$66	$154
st22862	San Berna	34.8	-116.4	Pre-Existing (BLM)		Dry	200	26.6%	466	$4,606	$66	$153
st22863	San Berna	34.8	-116.4	Pre-Existing (PPA)		Dry	200	26.7%	468	$4,820	$66	$158
st22885	San Berna	34.8	-116.4	Pre-Existing (BLM)		Dry	200	26.6%	466	$4,559	$66	$151
st22886	San Berna	34.8	-116.4	Pre-Existing (BLM)		Dry	200	26.6%	466	$4,678	$66	$155
st22887	San Berna	34.8	-116.4	Pre-Existing (BLM)		Dry	200	26.7%	468	$4,958	$66	$161
st22909	San Berna	34.8	-116.4	Pre-Existing (BLM)		Dry	200	25.4%	446	$4,466	$66	$156
st22910	San Berna	34.8	-116.4	Pre-Existing (BLM)		Dry	200	25.4%	446	$4,706	$66	$162
st22911	San Berna	34.8	-116.4	Pre-Existing (BLM)		Dry	200	26.5%	465	$5,091	$66	$166
st22932	San Berna	34.7	-116.3	Pre-Existing (BLM)		Dry	200	25.4%	446	$4,752	$66	$164
st22933	San Berna	34.8	-116.3	Pre-Existing (BLM)		Dry	200	25.4%	446	$4,836	$66	$166
st22934	San Berna	34.8	-116.3	Pre-Existing (BLM)		Dry	200	25.4%	446	$4,805	$66	$165
st22935	San Berna	34.8	-116.3	Pre-Existing (BLM)		Dry	200	26.5%	465	$5,223	$66	$169
st22956	San Berna	34.7	-116.3	Pre-Existing (BLM)		Dry	200	25.4%	446	$5,031	$66	$171
st22957	San Berna	34.8	-116.3	Pre-Existing (BLM)		Dry	200	25.4%	446	$5,185	$66	$175
st22958	San Berna	34.8	-116.3	Pre-Existing (BLM)		Dry	200	25.4%	446	$5,811	$66	$192
st22959	San Berna	34.8	-116.3	Pre-Existing (BLM)		Dry	200	26.5%	465	$5,995	$66	$189
st22978	San Berna	34.7	-116.3	Proxy		Dry	200	25.4%	446	$4,955	$66	$169
st22979	San Berna	34.7	-116.3	Pre-Existing (BLM)		Dry	200	25.4%	446	$4,609	$66	$160
st22980	San Berna	34.7	-116.3	Pre-Existing (BLM)		Dry	200	25.4%	446	$4,974	$66	$170
st22981	San Berna	34.8	-116.3	Pre-Existing (BLM)		Dry	200	25.4%	446	$6,791	$66	$219
st23003	San Berna	34.7	-116.3	Pre-Existing (BLM)		Dry	200	26.7%	468	$4,810	$66	$157
st23004	San Berna	34.7	-116.3	Pre-Existing (BLM)		Dry	200	26.7%	468	$5,043	$66	$163
st23007	San Berna	34.8	-116.3	Pre-Existing (BLM)		Dry	200	27.2%	477	$6,166	$66	$189

RETI Phase 1B Draft Report
Appendix E
Solar Thermal Projects

Project ID	County	Lat	Long	Type	Williamson Act Intersection	Cooling	MW	CF, %	Generation, GWh/yr	Capital Cost, $/kWac	Fixed O&M, $/kWac-yr	LCOE, $/MWh
st23008	San Berna	34.8	-116.3	Pre-Existing (BLM)		Dry	200	27.2%	477	$5,167	$66	$163
st23027	San Berna	34.7	-116.2	Pre-Existing (BLM)		Dry	200	26.7%	468	$4,898	$66	$160
st23028	San Berna	34.7	-116.2	Pre-Existing (BLM)		Dry	200	26.7%	468	$5,159	$66	$166
st23031	San Berna	34.8	-116.2	Pre-Existing (BLM)		Dry	200	27.2%	477	$5,402	$66	$169
st23032	San Berna	34.8	-116.2	Pre-Existing (BLM)		Dry	200	27.2%	477	$5,047	$66	$160
st23033	San Berna	34.9	-116.2	Pre-Existing (BLM)		Dry	200	27.2%	477	$5,242	$66	$165
st23051	San Berna	34.7	-116.2	Pre-Existing (BLM)		Dry	200	26.7%	468	$4,864	$66	$159
st23052	San Berna	34.7	-116.2	Pre-Existing (BLM)		Dry	200	26.7%	468	$5,776	$66	$182
st23053	San Berna	34.8	-116.2	Pre-Existing (BLM)		Dry	200	26.7%	468	$5,918	$66	$186
st23055	San Berna	34.8	-116.2	Pre-Existing (BLM)		Dry	200	27.2%	477	$5,335	$66	$168
st23056	San Berna	34.8	-116.2	Pre-Existing (BLM)		Dry	200	27.2%	477	$4,985	$66	$159
st23057	San Berna	34.9	-116.2	Pre-Existing (BLM)		Dry	200	27.2%	477	$5,278	$66	$166
st23075	San Berna	34.7	-116.2	Pre-Existing (BLM)		Dry	200	26.7%	468	$4,876	$66	$159
st23076	San Berna	34.7	-116.2	Pre-Existing (BLM)		Dry	200	26.7%	468	$5,230	$66	$168
st23077	San Berna	34.8	-116.2	Pre-Existing (BLM)		Dry	200	26.7%	468	$5,125	$66	$165
st23078	San Berna	34.8	-116.2	Pre-Existing (BLM)		Dry	200	26.7%	468	$5,503	$66	$175
st23079	San Berna	34.8	-116.2	Pre-Existing (BLM)		Dry	200	27.2%	477	$5,162	$66	$163
st23080	San Berna	34.8	-116.2	Pre-Existing (BLM)		Dry	200	27.2%	477	$4,750	$66	$153
st23099	San Berna	34.7	-116.2	Pre-Existing (BLM)		Dry	200	26.9%	471	$4,939	$66	$160
st23112	San Berna	35.0	-116.2	Pre-Existing (BLM)		Dry	200	26.3%	461	$5,062	$66	$166
st23135	San Berna	35.0	-116.1	Pre-Existing (BLM)		Dry	200	26.9%	472	$4,857	$66	$157
st23136	San Berna	35.0	-116.1	Pre-Existing (BLM)		Dry	200	26.3%	461	$5,088	$66	$167
st23143	San Berna	34.6	-116.1	Pre-Existing (BLM)		Dry	200	27.3%	479	$5,065	$66	$160
st23160	San Berna	35.0	-116.1	Pre-Existing (BLM)		Dry	200	26.3%	461	$5,173	$66	$169
st23167	San Berna	34.6	-116.1	Pre-Existing (BLM)		Dry	200	27.3%	479	$5,159	$66	$163
st23261	San Berna	34.6	-116.0	Pre-Existing (BLM)		Dry	200	27.1%	476	$4,721	$66	$153
st23262	San Berna	34.6	-116.0	Pre-Existing (BLM)		Dry	200	27.1%	476	$4,794	$66	$155
st23283	San Berna	34.6	-116.0	Pre-Existing (BLM)		Dry	200	25.9%	454	$4,721	$66	$160
st23284	San Berna	34.6	-116.0	Pre-Existing (BLM)		Dry	200	25.9%	454	$4,649	$66	$158
st23285	San Berna	34.6	-116.0	Pre-Existing (BLM)		Dry	200	27.2%	476	$4,790	$66	$154
st23286	San Berna	34.6	-116.0	Pre-Existing (BLM)		Dry	200	27.2%	476	$4,926	$66	$158
st23307	San Berna	34.6	-116.0	Pre-Existing (BLM)		Dry	200	25.9%	454	$4,497	$66	$154
st23308	San Berna	34.6	-116.0	Pre-Existing (BLM)		Dry	200	25.9%	454	$4,748	$66	$161
st23309	San Berna	34.6	-116.0	Pre-Existing (BLM)		Dry	200	27.2%	476	$5,063	$66	$161
st23331	San Berna	34.6	-115.9	Pre-Existing (BLM)		Dry	200	25.9%	454	$4,464	$66	$153
st23332	San Berna	34.6	-115.9	Pre-Existing (BLM)		Dry	200	25.9%	454	$4,834	$66	$163
st23333	San Berna	34.6	-115.9	Pre-Existing (BLM)		Dry	200	27.2%	476	$5,169	$66	$164
st23355	San Berna	34.6	-115.9	Pre-Existing (BLM)		Dry	200	25.9%	454	$4,350	$66	$150
st23356	San Berna	34.6	-115.9	Pre-Existing (BLM)		Dry	200	25.9%	454	$4,760	$66	$161
st23357	San Berna	34.6	-115.9	Pre-Existing (BLM)		Dry	200	27.2%	476	$5,510	$66	$172
st23361	San Berna	34.7	-115.9	Proxy		Dry	200	27.2%	476	$4,692	$66	$152
st23379	San Berna	34.6	-115.9	Pre-Existing (BLM)		Dry	200	25.5%	446	$4,309	$66	$152
st23380	San Berna	34.6	-115.9	Pre-Existing (BLM)		Dry	200	25.5%	446	$4,653	$66	$161
st23381	San Berna	34.6	-115.9	Pre-Existing (BLM)		Dry	200	27.1%	475	$5,102	$66	$162
st23382	San Berna	34.6	-115.9	Pre-Existing (BLM)		Dry	200	27.1%	475	$5,555	$66	$174
st23403	San Berna	34.6	-115.9	Pre-Existing (BLM)		Dry	200	25.5%	446	$4,312	$66	$152
st23404	San Berna	34.6	-115.9	Pre-Existing (BLM)		Dry	200	25.5%	446	$4,721	$66	$163
st23405	San Berna	34.6	-115.9	Pre-Existing (BLM)		Dry	200	27.1%	475	$4,961	$66	$159
st23406	San Berna	34.6	-115.9	Pre-Existing (BLM)		Dry	200	27.1%	475	$5,985	$66	$185
st23427	San Berna	34.6	-115.8	Pre-Existing (BLM)		Dry	200	25.5%	446	$4,386	$66	$154
st23428	San Berna	34.6	-115.8	Pre-Existing (BLM)		Dry	200	25.5%	446	$4,824	$66	$166
st23429	San Berna	34.6	-115.8	Pre-Existing (BLM)		Dry	200	27.1%	475	$4,971	$66	$159
st23430	San Berna	34.6	-115.8	Pre-Existing (BLM)		Dry	200	27.1%	475	$5,462	$66	$172
st23431	San Berna	34.6	-115.8	Pre-Existing (BLM)		Dry	200	27.1%	475	$5,550	$66	$174
st23432	San Berna	34.7	-115.8	Pre-Existing (BLM)		Dry	200	27.1%	475	$5,433	$66	$171
st23451	San Berna	34.6	-115.8	Pre-Existing (BLM)		Dry	200	25.5%	446	$4,451	$66	$156
st23452	San Berna	34.6	-115.8	Pre-Existing (BLM)		Dry	200	25.5%	446	$4,749	$66	$164
st23453	San Berna	34.6	-115.8	Pre-Existing (BLM)		Dry	200	27.1%	475	$4,960	$66	$159
st23454	San Berna	34.6	-115.8	Pre-Existing (BLM)		Dry	200	27.1%	475	$5,060	$66	$161
st23455	San Berna	34.6	-115.8	Pre-Existing (BLM)		Dry	200	27.1%	475	$5,630	$66	$176
st23456	San Berna	34.7	-115.8	Pre-Existing (BLM)		Dry	200	27.1%	475	$6,826	$66	$206
st23473	San Berna	34.5	-115.8	Proxy		Dry	200	26.1%	457	$4,432	$66	$151
st23476	San Berna	34.6	-115.8	Pre-Existing (BLM)		Dry	200	26.1%	457	$4,759	$66	$160
st23477	San Berna	34.6	-115.8	Pre-Existing (BLM)		Dry	200	27.4%	480	$4,959	$66	$157
st23478	San Berna	34.6	-115.8	Pre-Existing (BLM)		Dry	200	27.4%	480	$5,311	$66	$166
st23479	San Berna	34.6	-115.8	Pre-Existing (BLM)		Dry	200	27.4%	480	$6,168	$66	$188
st23480	San Berna	34.7	-115.8	Pre-Existing (BLM)		Dry	200	27.4%	480	$6,620	$66	$199
st23497	San Berna	34.5	-115.8	Proxy		Dry	200	26.1%	457	$4,483	$66	$153
st23498	San Berna	34.5	-115.8	Proxy		Dry	200	26.1%	457	$4,433	$66	$151
st23521	San Berna	34.5	-115.7	Proxy		Dry	200	26.1%	457	$4,476	$66	$152
st23522	San Berna	34.5	-115.7	Proxy		Dry	200	26.1%	457	$4,444	$66	$152
st23523	San Berna	34.6	-115.7	Proxy		Dry	200	26.1%	457	$4,519	$66	$154
st23546	San Berna	34.5	-115.7	Proxy		Dry	200	26.1%	457	$4,509	$66	$153
st23547	San Berna	34.6	-115.7	Proxy		Dry	200	26.1%	457	$4,688	$66	$158
st23569	San Berna	34.5	-115.7	Proxy		Dry	200	26.1%	457	$4,573	$66	$155
st23570	San Berna	34.5	-115.7	Proxy		Dry	200	26.1%	457	$4,573	$66	$155

RETI Phase 1B Draft Report
Appendix E
Solar Thermal Projects

Project ID	County	Lat	Long	Type	Williamson Act Intersection	Cooling	MW	CF, %	Generation, GWh/yr	Capital Cost, $/kWac	Fixed O&M, $/kWac-yr	LCOE, $/MWh
st23571	San Berna	34.6	-115.7	Proxy		Dry	200	26.1%	457	$4,731	$66	$159
st23593	San Berna	34.5	-115.7	Proxy		Dry	200	25.8%	451	$4,382	$66	$152
st23594	San Berna	34.5	-115.7	Proxy		Dry	200	25.8%	451	$4,510	$66	$155
st23617	San Berna	34.5	-115.6	Proxy		Dry	200	25.8%	451	$4,327	$66	$150
st23618	San Berna	34.5	-115.6	Pre-Existing (BLM)		Dry	200	25.8%	451	$4,628	$66	$158
st23619	San Berna	34.6	-115.6	Pre-Existing (BLM)		Dry	200	25.8%	451	$4,808	$66	$163
st23641	San Berna	34.5	-115.6	Proxy		Dry	200	25.8%	451	$4,348	$66	$151
st23642	San Berna	34.5	-115.6	Pre-Existing (BLM)		Dry	200	25.8%	451	$4,583	$66	$157
st23643	San Berna	34.6	-115.6	Pre-Existing (BLM)		Dry	200	25.8%	451	$4,722	$66	$161
st23665	San Berna	34.5	-115.6	Proxy		Dry	200	25.8%	451	$4,372	$66	$151
st23666	San Berna	34.5	-115.6	Pre-Existing (BLM)		Dry	200	25.8%	451	$4,488	$66	$155
st23667	San Berna	34.6	-115.6	Pre-Existing (BLM)		Dry	200	25.8%	451	$4,602	$66	$158
st23690	San Berna	34.5	-115.6	Pre-Existing (BLM)		Dry	200	26.3%	461	$4,420	$66	$150
st23691	San Berna	34.6	-115.6	Pre-Existing (BLM)		Dry	200	26.3%	461	$4,460	$66	$151
st23713	San Berna	34.5	-115.5	Proxy		Dry	200	26.3%	461	$4,482	$66	$151
st23714	San Berna	34.5	-115.5	Pre-Existing (BLM)		Dry	200	26.3%	461	$4,446	$66	$150
st23715	San Berna	34.6	-115.5	Pre-Existing (BLM)		Dry	200	26.3%	461	$4,392	$66	$149
st23738	San Berna	34.5	-115.5	Proxy		Dry	200	26.3%	461	$4,401	$66	$149
st23761	San Berna	34.5	-115.5	Proxy		Dry	200	26.3%	461	$4,653	$66	$156
st23809	San Berna	34.5	-115.4	Proxy		Dry	200	26.5%	464	$4,605	$66	$153
st24403	San Berna	34.9	-114.9	Pre-Existing (BLM)		Dry	200	26.5%	464	$5,818	$66	$185
st24427	San Berna	34.9	-114.8	Pre-Existing (BLM)		Dry	200	26.5%	464	$5,395	$66	$174
st24451	San Berna	34.9	-114.8	Pre-Existing (BLM)		Dry	200	26.5%	464	$5,070	$66	$165
st24452	San Berna	34.9	-114.8	Pre-Existing (BLM)		Dry	200	26.5%	464	$4,817	$66	$159
st24475	San Berna	34.9	-114.8	Pre-Existing (BLM)		Dry	200	26.5%	464	$4,902	$66	$161
st24476	San Berna	34.9	-114.8	Pre-Existing (BLM)		Dry	200	26.5%	464	$4,664	$66	$155
st24498	San Berna	34.9	-114.8	Proxy		Dry	200	26.6%	466	$4,680	$66	$155
st24587	San Berna	34.7	-114.7	Pre-Existing (BLM)		Dry	200	26.6%	467	$5,147	$66	$167
st24588	San Berna	34.7	-114.7	Pre-Existing (BLM)		Dry	200	26.6%	467	$5,188	$66	$168
st24611	San Berna	34.7	-114.6	Pre-Existing (BLM)		Dry	200	26.6%	467	$5,087	$66	$165
st24612	San Berna	34.7	-114.6	Pre-Existing (BLM)		Dry	200	26.6%	467	$4,886	$66	$160
st24613	San Berna	34.8	-114.6	Pre-Existing (BLM)		Dry	200	26.6%	467	$4,764	$66	$157
st24634	San Berna	34.7	-114.6	Pre-Existing (BLM)		Dry	200	26.6%	467	$5,044	$66	$164
st24635	San Berna	34.7	-114.6	Pre-Existing (BLM)		Dry	200	26.6%	467	$4,920	$66	$161
st24636	San Berna	34.7	-114.6	Pre-Existing (BLM)		Dry	200	26.6%	467	$4,840	$66	$159
st24637	San Berna	34.8	-114.6	Pre-Existing (BLM)		Dry	200	26.6%	467	$4,759	$66	$157
st24638	San Berna	34.8	-114.6	Proxy		Dry	200	26.6%	467	$4,648	$66	$154
st24639	San Berna	34.8	-114.6	Proxy		Dry	200	26.3%	460	$4,734	$66	$158
st24658	San Berna	34.7	-114.6	Pre-Existing (BLM)		Dry	200	26.6%	467	$4,868	$66	$159
st24659	San Berna	34.7	-114.6	Pre-Existing (BLM)		Dry	200	26.6%	467	$4,762	$66	$157
st24683	San Berna	34.7	-114.6	Pre-Existing (BLM)		Dry	200	26.6%	466	$4,944	$66	$162
st24707	San Berna	34.7	-114.5	Pre-Existing (BLM)		Dry	200	26.6%	466	$4,853	$66	$159
st25628	San Luis O	35.4	-120.6	Proxy	Yes	Dry	200	20.1%	353	$5,525	$66	$233
st25749	San Luis O	35.4	-120.5	Proxy	Yes	Dry	200	20.4%	357	$4,790	$66	$206
st25771	San Luis O	35.4	-120.5	Proxy	Yes	Dry	200	20.4%	357	$5,124	$66	$217
st25772	San Luis O	35.4	-120.5	Proxy		Dry	200	20.4%	357	$5,262	$66	$222
st25968	San Luis O	35.5	-120.3	Proxy	Yes	Dry	200	20.3%	356	$4,669	$66	$202
st25992	San Luis O	35.5	-120.3	Proxy	Yes	Dry	200	20.1%	352	$4,621	$66	$203
st26013	San Luis O	35.4	-120.2	Proxy	Yes	Dry	200	20.6%	361	$4,638	$66	$198
st26133	San Luis O	35.4	-120.1	Proxy	Yes	Dry	200	20.4%	357	$4,801	$66	$206
st26134	San Luis O	35.5	-120.1	Proxy	Yes	Dry	200	20.4%	357	$4,608	$66	$199
st26154	San Luis O	35.4	-120.1	Proxy	Yes	Dry	200	20.6%	360	$4,779	$66	$203
st26155	San Luis O	35.4	-120.1	Proxy	Yes	Dry	200	20.4%	357	$4,520	$66	$196
st26157	San Luis O	35.4	-120.1	Proxy	Yes	Dry	200	20.4%	357	$4,578	$66	$198
st26158	San Luis O	35.5	-120.1	Proxy	Yes	Dry	200	20.4%	357	$4,646	$66	$201
st26177	San Luis O	35.4	-120.1	Proxy	Yes	Dry	200	20.5%	359	$4,598	$66	$198
st26180	San Luis O	35.4	-120.1	Proxy	Yes	Dry	200	20.4%	358	$4,517	$66	$196
st26181	San Luis O	35.4	-120.1	Proxy	Yes	Dry	200	20.4%	358	$4,644	$66	$200
st26182	San Luis O	35.5	-120.1	Proxy	Yes	Dry	200	20.4%	358	$4,644	$66	$200
st26183	San Luis O	35.5	-120.1	Proxy	Yes	Dry	200	20.4%	358	$4,607	$66	$199
st26200	San Luis O	35.3	-120.1	Proxy	Yes	Dry	200	20.5%	359	$4,448	$66	$193
st26203	San Luis O	35.4	-120.1	Pre-Existing (PPA)		Dry	200	20.4%	358	$4,509	$66	$196
st26204	San Luis O	35.4	-120.1	Proxy	Yes	Dry	200	20.4%	358	$4,715	$66	$202
st26206	San Luis O	35.5	-120.1	Proxy	Yes	Dry	200	20.4%	358	$4,639	$66	$200
st26220	San Luis O	35.3	-120.0	Proxy	Yes	Dry	200	20.5%	359	$4,735	$66	$203
st26223	San Luis O	35.3	-120.0	Proxy	Yes	Dry	200	20.5%	359	$4,749	$66	$203
st26226	San Luis O	35.4	-120.0	Proxy		Dry	200	20.5%	359	$4,531	$66	$196
st26243	San Luis O	35.2	-120.0	Proxy	Yes	Dry	200	20.5%	359	$4,744	$66	$203
st26244	San Luis O	35.3	-120.0	Proxy	Yes	Dry	200	20.5%	359	$4,751	$66	$203
st26249	San Luis O	35.4	-120.0	Proxy	Yes	Dry	200	20.5%	359	$4,589	$66	$198
st26267	San Luis O	35.2	-120.0	Proxy	Yes	Dry	200	20.4%	358	$4,363	$66	$191
st26273	San Luis O	35.4	-120.0	Proxy	Yes	Dry	200	20.1%	352	$4,633	$66	$203
st26274	San Luis O	35.4	-120.0	Proxy	Yes	Dry	200	20.1%	352	$4,726	$66	$207
st26297	San Luis O	35.4	-120.0	Proxy	Yes	Dry	200	20.1%	352	$4,710	$66	$206
st26305	Santa Barb	35.0	-119.9	Proxy	Yes	Dry	200	20.0%	350	$4,853	$66	$212
st26306	Santa Barb	35.0	-119.9	Proxy	Yes	Dry	200	20.0%	350	$5,148	$66	$222

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st26353	Santa Barb	35.0	-119.9	Proxy	Yes	Dry	200	21.0%	369	$4,964	$66	$205
st26629	Kern	35.3	-119.6	Proxy	Yes	Dry	200	17.6%	308	$4,678	$66	$234
st27715	Kern	35.4	-118.5	Proxy	Yes	Dry	200	20.6%	360	$5,270	$66	$220
st27985	Kern	35.0	-118.2	Proxy		Dry	200	26.3%	462	$4,695	$66	$157
st28009	Kern	35.0	-118.2	Proxy		Dry	200	26.3%	462	$4,665	$66	$156
st28014	Kern	35.1	-118.2	Pre-Existing (BLM)		Dry	200	24.6%	431	$5,577	$66	$192
st28037	Kern	35.1	-118.2	Pre-Existing (BLM)		Dry	200	26.7%	468	$4,786	$66	$157
st28038	Kern	35.1	-118.2	Pre-Existing (BLM)		Dry	200	26.7%	468	$5,295	$66	$170
st28039	Kern	35.1	-118.2	Pre-Existing (BLM)		Dry	200	26.7%	468	$6,727	$66	$207
st28061	Kern	35.1	-118.2	Proxy		Dry	200	26.7%	468	$4,653	$66	$154
st28062	Kern	35.1	-118.2	Pre-Existing (BLM)		Dry	200	26.7%	468	$4,764	$66	$156
st28063	Kern	35.1	-118.2	Pre-Existing (BLM)		Dry	200	26.7%	468	$5,597	$66	$178
st28085	Kern	35.1	-118.1	Proxy		Dry	200	26.7%	468	$4,672	$66	$154
st28086	Kern	35.1	-118.1	Proxy		Dry	200	26.7%	468	$4,712	$66	$155
st28087	Kern	35.1	-118.1	Pre-Existing (BLM)		Dry	200	26.7%	468	$4,973	$66	$162
st28088	Kern	35.2	-118.1	Pre-Existing (BLM)		Dry	200	26.7%	468	$5,791	$66	$183
st28089	Kern	35.2	-118.1	Pre-Existing (BLM)		Dry	200	26.7%	468	$7,856	$66	$236
st28105	Kern	35.0	-118.1	Proxy		Dry	200	26.3%	461	$4,397	$66	$149
st28108	Kern	35.1	-118.1	Proxy		Dry	200	26.3%	461	$4,543	$66	$153
st28109	Kern	35.1	-118.1	Proxy		Dry	200	26.7%	468	$4,566	$66	$151
st28110	Kern	35.1	-118.1	Proxy		Dry	200	26.7%	468	$4,552	$66	$151
st28111	Kern	35.1	-118.1	Pre-Existing (BLM)		Dry	200	26.7%	468	$4,590	$66	$152
st28112	Kern	35.2	-118.1	Pre-Existing (BLM)		Dry	200	26.7%	468	$5,040	$66	$164
st28113	Kern	35.2	-118.1	Pre-Existing (BLM)		Dry	200	26.7%	468	$6,671	$66	$206
st28131	Kern	35.1	-118.1	Proxy		Dry	200	26.3%	461	$4,506	$66	$152
st28133	Kern	35.1	-118.1	Pre-Existing (BLM)		Dry	200	26.7%	468	$4,527	$66	$150
st28134	Kern	35.1	-118.1	Pre-Existing (BLM)		Dry	200	26.7%	468	$4,569	$66	$151
st28135	Kern	35.1	-118.1	Proxy		Dry	200	26.7%	468	$4,589	$66	$152
st28136	Kern	35.2	-118.1	Proxy		Dry	200	26.7%	468	$4,480	$66	$149
st28137	Kern	35.2	-118.1	Pre-Existing (BLM)		Dry	200	26.7%	468	$4,994	$66	$162
st28138	Kern	35.2	-118.1	Pre-Existing (BLM)		Dry	200	26.5%	465	$7,257	$66	$222
st28139	Kern	35.2	-118.1	Pre-Existing (BLM)		Dry	200	26.5%	465	$7,656	$66	$232
st28155	Kern	35.1	-118.1	Proxy		Dry	200	27.3%	478	$4,428	$66	$144
st28157	Kern	35.1	-118.1	Pre-Existing (BLM)		Dry	200	27.5%	482	$4,501	$66	$145
st28158	Kern	35.1	-118.1	Pre-Existing (BLM)		Dry	200	27.5%	482	$4,516	$66	$145
st28159	Kern	35.1	-118.1	Pre-Existing (BLM)		Dry	200	27.5%	482	$4,543	$66	$146
st28160	Kern	35.2	-118.1	Proxy		Dry	200	27.5%	482	$4,664	$66	$149
st28161	Kern	35.2	-118.1	Proxy		Dry	200	27.5%	482	$4,822	$66	$153
st28162	Kern	35.2	-118.1	Pre-Existing (BLM)		Dry	200	27.1%	476	$5,047	$66	$161
st28163	Kern	35.2	-118.1	Pre-Existing (BLM)		Dry	200	27.1%	476	$5,398	$66	$170
st28177	Kern	35.0	-118.0	Proxy		Dry	200	27.3%	478	$4,439	$66	$145
st28178	Kern	35.0	-118.0	Proxy		Dry	200	27.3%	478	$4,327	$66	$142
st28179	Kern	35.1	-118.0	Proxy		Dry	200	27.3%	478	$4,405	$66	$144
st28182	Kern	35.1	-118.0	Proxy		Dry	200	27.5%	482	$4,508	$66	$145
st28185	Kern	35.2	-118.0	Proxy		Dry	200	27.5%	482	$4,488	$66	$145
st28201	Kern	35.0	-118.0	Proxy		Dry	200	27.3%	478	$4,647	$66	$150
st28203	Kern	35.1	-118.0	Proxy		Dry	200	27.3%	478	$4,637	$66	$150
st28205	Kern	35.1	-118.0	Proxy		Dry	200	27.5%	482	$4,532	$66	$146
st28209	Kern	35.2	-118.0	Proxy		Dry	200	27.5%	482	$4,497	$66	$145
st28211	Kern	35.2	-118.0	Proxy		Dry	200	27.1%	476	$4,511	$66	$147
st28212	Kern	35.3	-118.0	Proxy		Dry	200	27.1%	476	$4,546	$66	$148
st28227	Kern	35.1	-118.0	Proxy		Dry	200	27.3%	478	$4,709	$66	$152
st28232	Kern	35.2	-118.0	Proxy		Dry	200	27.5%	482	$4,476	$66	$144
st28233	Kern	35.2	-118.0	Proxy		Dry	200	27.5%	482	$4,551	$66	$146
st28235	Kern	35.2	-118.0	Proxy		Dry	200	27.1%	476	$4,531	$66	$148
st28236	Kern	35.3	-118.0	Proxy		Dry	200	27.1%	476	$4,593	$66	$149
st28252	Kern	35.1	-118.0	Proxy		Dry	200	27.8%	487	$4,509	$66	$144
st28276	Kern	35.1	-117.9	Proxy		Dry	200	27.8%	487	$4,969	$66	$155
st28299	Kern	35.1	-117.9	Proxy		Dry	200	27.8%	487	$4,809	$66	$151
st28300	Kern	35.1	-117.9	Proxy		Dry	200	27.8%	487	$4,561	$66	$145
st28301	Kern	35.1	-117.9	Proxy		Dry	200	27.6%	484	$4,464	$66	$144
st28323	Kern	35.1	-117.9	Proxy		Dry	200	27.8%	487	$4,483	$66	$143
st28324	Kern	35.1	-117.9	Proxy		Dry	200	27.8%	487	$4,506	$66	$144
st28327	Kern	35.1	-117.9	Proxy		Dry	200	27.6%	484	$4,592	$66	$147
st28345	Kern	35.0	-117.9	Proxy		Dry	200	28.0%	490	$4,520	$66	$143
st28346	Kern	35.0	-117.9	Proxy		Dry	200	28.0%	490	$4,674	$66	$147
st28347	Kern	35.1	-117.9	Proxy		Dry	200	28.0%	490	$4,501	$66	$143
st28348	Kern	35.1	-117.9	Proxy		Dry	200	28.0%	490	$4,654	$66	$146
st28372	Kern	35.1	-117.8	Proxy		Dry	200	28.0%	490	$4,700	$66	$148
st28373	Kern	35.1	-117.8	Proxy		Dry	200	28.0%	491	$4,667	$66	$146
st28376	Kern	35.2	-117.8	Proxy		Dry	200	28.0%	491	$4,678	$66	$147
st28397	Kern	35.1	-117.8	Proxy		Dry	200	28.0%	491	$4,489	$66	$142
st28398	Kern	35.1	-117.8	Proxy		Dry	200	28.0%	491	$4,672	$66	$147
st28400	Kern	35.2	-117.8	Proxy		Dry	200	28.0%	491	$4,543	$66	$143
st28418	Kern	35.0	-117.8	Proxy		Dry	200	28.0%	490	$4,833	$66	$151
st28419	Kern	35.1	-117.8	Proxy		Dry	200	28.0%	490	$4,510	$66	$143

RETI Phase 1B Draft Report
Appendix E
Solar Thermal Projects

Project ID	County	Lat	Long	Type	Williamson Act Intersection	Cooling	MW	CF, %	Generation, GWh/yr	Capital Cost, $/kWac	Fixed O&M, $/kWac-yr	LCOE, $/MWh
st28422	Kern	35.1	-117.8	Proxy		Dry	200	28.0%	491	$4,547	$66	$144
st28423	Kern	35.1	-117.8	Proxy		Dry	200	28.0%	491	$4,675	$66	$147
st28424	Kern	35.2	-117.8	Proxy		Dry	200	28.0%	491	$4,598	$66	$145
st28426	Kern	35.2	-117.8	Proxy		Dry	200	28.2%	493	$4,702	$66	$147
st28442	Kern	35.0	-117.8	Proxy		Dry	200	27.8%	487	$4,497	$66	$144
st28443	Kern	35.1	-117.8	Proxy		Dry	200	27.8%	487	$4,695	$66	$148
st28445	Kern	35.1	-117.8	Proxy		Dry	200	28.2%	495	$4,540	$66	$142
st28446	Kern	35.1	-117.8	Proxy		Dry	200	28.2%	495	$4,545	$66	$143
st28447	Kern	35.1	-117.8	Proxy		Dry	200	28.2%	495	$4,605	$66	$144
st28448	Kern	35.2	-117.8	Proxy		Dry	200	28.2%	495	$4,617	$66	$144
st28468	Kern	35.1	-117.7	Proxy		Dry	200	27.8%	487	$4,735	$66	$149
st28469	Kern	35.1	-117.7	Proxy		Dry	200	28.2%	495	$4,640	$66	$145
st28470	Kern	35.1	-117.7	Proxy		Dry	200	28.2%	495	$4,659	$66	$145
st28471	Kern	35.1	-117.7	Proxy		Dry	200	28.2%	495	$4,526	$66	$142
st28472	Kern	35.2	-117.7	Proxy		Dry	200	28.2%	495	$4,691	$66	$146
st28491	Kern	35.1	-117.7	Proxy		Dry	200	27.8%	487	$4,649	$66	$147
st28492	Kern	35.1	-117.7	Proxy		Dry	200	27.8%	487	$4,767	$66	$150
st28493	Kern	35.1	-117.7	Proxy		Dry	200	28.2%	495	$4,544	$66	$142
st28494	Kern	35.1	-117.7	Proxy		Dry	200	28.2%	495	$4,651	$66	$145
st28495	Kern	35.1	-117.7	Proxy		Dry	200	28.2%	495	$4,530	$66	$142
st28498	Kern	35.2	-117.7	Proxy		Dry	200	28.4%	498	$4,583	$66	$143
st28515	Kern	35.1	-117.7	Proxy		Dry	200	27.8%	487	$4,798	$66	$151
st28516	Kern	35.1	-117.7	Proxy		Dry	200	27.8%	487	$4,593	$66	$146
st28517	Kern	35.1	-117.7	Proxy		Dry	200	28.2%	495	$4,634	$66	$145
st28519	Kern	35.1	-117.7	Proxy		Dry	200	28.2%	495	$4,722	$66	$147
st28521	Kern	35.2	-117.7	Proxy		Dry	200	28.2%	495	$4,768	$66	$148
st28522	Kern	35.2	-117.7	Proxy		Dry	200	28.4%	498	$4,505	$66	$141
st28523	Kern	35.2	-117.7	Proxy		Dry	200	28.4%	498	$4,645	$66	$144
st28538	Kern	35.0	-117.7	Proxy		Dry	200	27.1%	476	$5,458	$66	$171
st28539	Kern	35.1	-117.7	Proxy		Dry	200	27.1%	476	$4,742	$66	$153
st28545	Kern	35.2	-117.7	Proxy		Dry	200	28.3%	497	$4,607	$66	$143
st28546	Kern	35.2	-117.7	Proxy		Dry	200	28.6%	500	$4,521	$66	$140
st28547	Kern	35.2	-117.7	Proxy		Dry	200	28.6%	500	$4,596	$66	$142
st28562	Kern	35.0	-117.7	Proxy		Dry	200	27.1%	476	$4,612	$66	$150
st28567	Kern	35.1	-117.7	Proxy		Dry	200	28.3%	497	$4,655	$66	$145
st28568	Kern	35.2	-117.7	Proxy		Dry	200	28.3%	497	$4,554	$66	$142
st28570	Kern	35.2	-117.7	Proxy		Dry	200	28.6%	500	$4,485	$66	$139
st28571	Kern	35.2	-117.7	Proxy		Dry	200	28.6%	500	$4,623	$66	$143
st28585	Kern	35.0	-117.6	Proxy		Dry	200	27.1%	476	$4,730	$66	$153
st28609	San Berna	35.0	-117.6	Proxy		Dry	200	27.1%	476	$4,650	$66	$151
st28610	San Berna	35.0	-117.6	Proxy		Dry	200	27.1%	476	$4,607	$66	$150
st28634	San Berna	35.0	-117.6	Proxy		Dry	200	28.1%	493	$4,563	$66	$144
st28921	San Berna	35.0	-117.3	Pre-Existing (BLM)		Dry	200	27.8%	488	$4,414	$66	$141
st28922	San Berna	35.0	-117.3	Pre-Existing (BLM)		Dry	200	27.8%	488	$4,410	$66	$141
st28923	San Berna	35.1	-117.3	Pre-Existing (BLM)		Dry	200	27.8%	488	$4,483	$66	$143
st28945	San Berna	35.0	-117.3	Pre-Existing (BLM)		Dry	200	26.3%	461	$4,477	$66	$151
st28946	San Berna	35.0	-117.3	Pre-Existing (BLM)		Dry	200	26.3%	461	$4,399	$66	$149
st28947	San Berna	35.1	-117.3	Pre-Existing (BLM)		Dry	200	26.3%	461	$4,509	$66	$152
st28969	San Berna	35.0	-117.2	Pre-Existing (BLM)		Dry	200	26.3%	461	$4,416	$66	$150
st28970	San Berna	35.0	-117.2	Pre-Existing (BLM)		Dry	200	26.3%	461	$4,398	$66	$149
st28993	San Berna	35.0	-117.2	Pre-Existing (BLM)		Dry	200	26.3%	461	$4,443	$66	$150
st28994	San Berna	35.0	-117.2	Pre-Existing (BLM)		Dry	200	26.3%	461	$4,501	$66	$152
stm29171	San Berna	35.2	-117.0	Pre-Existing (Military)		Dry	200	26.9%	471	$4,439	$66	$147
stm29582	San Berna	35.3	-116.6	Pre-Existing (Military)		Dry	200	26.9%	472	$4,553	$66	$150
st29906	San Berna	35.0	-116.3	Pre-Existing (BLM)		Dry	200	26.1%	457	$6,220	$66	$198
st29930	San Berna	35.0	-116.3	Pre-Existing (BLM)		Dry	200	26.3%	460	$4,569	$66	$154
st29932	San Berna	35.1	-116.3	Proxy		Dry	200	26.3%	460	$4,609	$66	$155
st29954	San Berna	35.0	-116.2	Pre-Existing (BLM)		Dry	200	26.3%	460	$4,620	$66	$155
st29956	San Berna	35.1	-116.2	Proxy		Dry	200	26.3%	460	$4,570	$66	$154
st29978	San Berna	35.0	-116.2	Pre-Existing (BLM)		Dry	200	26.3%	460	$4,452	$66	$151
st29982	San Berna	35.1	-116.2	Pre-Existing (BLM)		Dry	200	25.7%	451	$5,566	$66	$184
st30001	San Berna	35.0	-116.2	Pre-Existing (BLM)		Dry	200	26.3%	460	$4,679	$66	$157
st30002	San Berna	35.0	-116.2	Pre-Existing (BLM)		Dry	200	26.3%	460	$4,423	$66	$150
st30003	San Berna	35.1	-116.2	Proxy		Dry	200	26.3%	460	$4,425	$66	$150
st30006	San Berna	35.1	-116.2	Pre-Existing (BLM)		Dry	200	25.7%	451	$6,326	$66	$204
st30007	San Berna	35.1	-116.2	Pre-Existing (BLM)		Dry	200	25.7%	451	$5,146	$66	$172
st30027	San Berna	35.1	-116.2	Proxy		Dry	200	26.3%	461	$4,416	$66	$149
st30030	San Berna	35.1	-116.2	Pre-Existing (BLM)		Dry	200	26.4%	463	$5,910	$66	$188
st30031	San Berna	35.1	-116.2	Pre-Existing (BLM)		Dry	200	26.4%	463	$5,503	$66	$177
st30032	San Berna	35.2	-116.2	Pre-Existing (BLM)		Dry	200	26.4%	463	$4,952	$66	$163
st30070	San Berna	35.5	-116.1	Pre-Existing (BLM)		Dry	200	26.0%	455	$4,786	$66	$161
st30071	San Berna	35.5	-116.1	Pre-Existing (BLM)		Dry	200	26.0%	455	$4,755	$66	$161
st30072	San Berna	35.5	-116.1	Pre-Existing (BLM)		Dry	200	26.0%	455	$4,676	$66	$158
st30094	San Berna	35.5	-116.1	Pre-Existing (BLM)		Dry	200	26.0%	455	$4,890	$66	$164
st30095	San Berna	35.5	-116.1	Pre-Existing (BLM)		Dry	200	26.0%	455	$4,879	$66	$164
st30096	San Berna	35.5	-116.1	Pre-Existing (BLM)		Dry	200	26.0%	455	$5,022	$66	$167

RETI Phase 1B Draft Report
Appendix E
Solar Thermal Projects

Project ID	County	Lat	Long	Type	Williamson Act Intersection	Cooling	MW	CF, %	Generation, GWh/yr	Capital Cost, $/kWac	Fixed O&M, $/kWac-yr	LCOE, $/MWh
st30117	San Berna	35.4	-116.1	Pre-Existing (BLM)		Dry	200	26.0%	455	$5,358	$66	$177
st30118	San Berna	35.5	-116.1	Pre-Existing (BLM)		Dry	200	26.0%	455	$4,965	$66	$166
st30119	San Berna	35.5	-116.1	Pre-Existing (BLM)		Dry	200	26.0%	455	$5,085	$66	$169
st30120	San Berna	35.5	-116.1	Pre-Existing (BLM)		Dry	200	26.0%	455	$7,121	$66	$223
st30134	San Berna	35.3	-116.1	Pre-Existing (BLM)		Dry	200	26.2%	460	$4,627	$66	$155
st30142	San Berna	35.5	-116.1	Pre-Existing (BLM)		Dry	200	26.8%	470	$5,106	$66	$164
st30143	San Berna	35.5	-116.1	Pre-Existing (BLM)		Dry	200	26.8%	470	$5,203	$66	$167
st31067	San Berna	35.2	-115.1	Pre-Existing (BLM)		Dry	200	28.1%	492	$4,606	$66	$145
st31068	San Berna	35.3	-115.1	Pre-Existing (BLM)		Dry	200	28.1%	492	$4,737	$66	$148
st31069	San Berna	35.3	-115.1	Pre-Existing (BLM)		Dry	200	28.1%	492	$4,777	$66	$149
st31093	San Berna	35.3	-115.1	Pre-Existing (BLM)		Dry	200	28.1%	492	$5,462	$66	$166
st31094	San Berna	35.3	-115.1	Pre-Existing (BLM)		Dry	200	27.7%	485	$5,909	$66	$179
st32156	Monterey	35.8	-121.0	Proxy	Yes	Dry	200	20.5%	360	$5,125	$66	$215
st32157	Monterey	35.8	-121.0	Proxy	Yes	Dry	200	20.5%	360	$4,881	$66	$207
st32173	San Luis O	35.7	-121.0	Proxy	Yes	Dry	200	20.4%	358	$5,428	$66	$227
st32485	Monterey	36.0	-120.7	Proxy	Yes	Dry	200	20.5%	359	$5,595	$66	$232
st32488	San Luis O	35.5	-120.7	Proxy	Yes	Dry	200	20.2%	354	$5,359	$66	$227
st32502	Monterey	35.8	-120.7	Proxy	Yes	Dry	200	20.5%	359	$4,959	$66	$210
st32503	Monterey	35.9	-120.7	Proxy		Dry	200	20.5%	359	$4,755	$66	$204
st32526	Monterey	35.9	-120.6	Proxy		Dry	200	20.5%	359	$4,817	$66	$206
st32656	San Luis O	35.7	-120.5	Proxy	Yes	Dry	200	20.4%	358	$4,829	$66	$207
st32657	San Luis O	35.7	-120.5	Proxy	Yes	Dry	200	20.4%	358	$4,854	$66	$207
st32674	San Luis O	35.6	-120.5	Proxy	Yes	Dry	200	20.3%	356	$4,866	$66	$209
st32729	Monterey	35.8	-120.4	Proxy	Yes	Dry	200	20.3%	356	$4,556	$66	$199
st32742	San Luis O	35.6	-120.4	Proxy	Yes	Dry	200	20.5%	359	$4,575	$66	$198
st32743	San Luis O	35.6	-120.4	Proxy	Yes	Dry	200	20.3%	356	$4,339	$66	$191
st32750	San Luis O	35.7	-120.4	Proxy	Yes	Dry	200	20.3%	356	$4,999	$66	$214
st32751	San Luis O	35.8	-120.4	Proxy	Yes	Dry	200	20.3%	356	$4,814	$66	$207
st32755	Monterey	35.8	-120.4	Proxy		Dry	200	19.9%	349	$4,490	$66	$200
st32777	Monterey	35.8	-120.4	Proxy		Dry	200	19.5%	342	$4,500	$66	$204
st32779	Monterey	35.9	-120.4	Proxy	Yes	Dry	200	19.5%	342	$4,800	$66	$215
st32798	Monterey	35.8	-120.3	Proxy	Yes	Dry	200	19.9%	348	$5,254	$66	$227
st32799	Monterey	35.8	-120.3	Proxy		Dry	200	19.5%	342	$4,547	$66	$206
st32801	Monterey	35.8	-120.3	Proxy		Dry	200	19.5%	342	$4,774	$66	$214
st32821	Monterey	35.8	-120.3	Proxy	Yes	Dry	200	19.9%	348	$4,607	$66	$205
st32832	San Luis O	35.5	-120.3	Proxy	Yes	Dry	200	20.3%	356	$4,772	$66	$205
st32833	San Luis O	35.5	-120.3	Proxy	Yes	Dry	200	20.3%	356	$4,754	$66	$205
st32843	San Luis O	35.8	-120.3	Proxy	Yes	Dry	200	19.9%	348	$4,534	$66	$202
st33019	San Luis O	35.6	-120.1	Proxy	Yes	Dry	200	19.9%	348	$4,851	$66	$213
st33074	Kern	35.8	-120.1	Proxy	Yes	Dry	200	18.5%	324	$4,438	$66	$213
st33076	Kings	35.8	-120.1	Proxy	Yes	Dry	200	18.3%	320	$4,615	$66	$223
st33111	Kern	35.6	-120.0	Proxy	Yes	Dry	200	19.4%	339	$4,715	$66	$214
st35145	Inyo	35.8	-117.9	Proxy		Dry	200	27.4%	480	$4,722	$66	$151
st35163	Kern	35.7	-117.8	Proxy		Dry	200	27.6%	483	$4,611	$66	$147
st35164	Kern	35.7	-117.8	Proxy		Dry	200	27.6%	483	$4,598	$66	$147
st35182	Kern	35.6	-117.8	Proxy		Dry	200	28.1%	493	$4,551	$66	$143
st35204	Kern	35.6	-117.8	Proxy		Dry	200	28.1%	493	$4,587	$66	$144
st35205	Kern	35.6	-117.8	Proxy		Dry	200	28.1%	493	$4,471	$66	$141
st35206	Kern	35.6	-117.8	Proxy		Dry	200	28.1%	493	$4,480	$66	$142
st35224	Kern	35.5	-117.8	Pre-Existing (BLM)		Dry	200	28.3%	496	$6,745	$66	$196
st35225	Kern	35.5	-117.8	Pre-Existing (BLM)		Dry	200	28.3%	496	$6,577	$66	$192
st35226	Kern	35.6	-117.8	Pre-Existing (BLM)		Dry	200	28.3%	496	$4,676	$66	$145
st35227	Kern	35.6	-117.8	Proxy		Dry	200	28.2%	494	$4,551	$66	$143
st35228	Kern	35.6	-117.8	Proxy		Dry	200	28.2%	494	$4,493	$66	$141
st35247	Kern	35.5	-117.7	Pre-Existing (BLM)		Dry	200	28.3%	496	$5,245	$66	$159
st35248	Kern	35.5	-117.7	Pre-Existing (BLM)		Dry	200	28.3%	496	$4,701	$66	$146
st35249	Kern	35.6	-117.7	Pre-Existing (BLM)		Dry	200	28.3%	496	$4,572	$66	$143
st35250	Kern	35.6	-117.7	Pre-Existing (BLM)		Dry	200	28.2%	494	$4,529	$66	$142
st35251	Kern	35.6	-117.7	Pre-Existing (BLM)		Dry	200	28.2%	494	$4,584	$66	$144
st35252	Kern	35.6	-117.7	Pre-Existing (BLM)		Dry	200	28.2%	494	$4,527	$66	$142
st35270	Kern	35.5	-117.7	Pre-Existing (BLM)		Dry	200	28.3%	496	$5,326	$66	$161
st35271	Kern	35.5	-117.7	Pre-Existing (BLM)		Dry	200	28.3%	496	$4,849	$66	$150
st35272	Kern	35.6	-117.7	Pre-Existing (BLM)		Dry	200	28.3%	496	$4,846	$66	$149
st35273	Kern	35.6	-117.7	Pre-Existing (BLM)		Dry	200	28.2%	494	$4,670	$66	$146
st35274	Kern	35.6	-117.7	Pre-Existing (BLM)		Wet	200	29.5%	517	$4,419	$66	$133
st35275	Kern	35.6	-117.7	Pre-Existing (BLM)		Dry	200	28.2%	494	$4,537	$66	$143
st35294	Kern	35.5	-117.7	Pre-Existing (BLM)		Dry	200	28.3%	496	$5,901	$66	$175
st35523	San Berna	35.5	-117.5	Proxy		Dry	200	28.1%	493	$4,689	$66	$146
st35546	San Berna	35.5	-117.4	Proxy		Dry	200	28.1%	493	$4,663	$66	$146
st35648	San Berna	35.7	-117.3	Proxy		Dry	200	26.3%	460	$4,386	$66	$149
st35671	San Berna	35.7	-117.3	Proxy		Dry	200	26.3%	460	$4,399	$66	$149
st35691	San Berna	35.7	-117.3	Proxy		Dry	200	27.2%	477	$4,486	$66	$146
st35727	Inyo	36.0	-117.3	Proxy		Dry	200	27.3%	479	$5,256	$66	$165
st35728	Inyo	36.0	-117.3	Proxy		Dry	200	27.3%	479	$4,730	$66	$152
st35750	Inyo	36.0	-117.2	Proxy		Dry	200	27.3%	479	$4,515	$66	$146
st35751	Inyo	36.0	-117.2	Proxy		Dry	200	27.3%	479	$4,501	$66	$146

RETI Phase 1B Draft Report
Appendix E
Solar Thermal Projects

Project ID	County	Lat	Long	Type	Williamson Act Intersection	Cooling	MW	CF, %	Generation, GWh/yr	Capital Cost, $/kWac	Fixed O&M, $/kWac-yr	LCOE, $/MWh
st35752	Inyo	36.0	-117.2	Proxy		Dry	200	27.1%	475	$4,692	$66	$152
st35773	Inyo	36.0	-117.2	Proxy		Dry	200	27.3%	479	$4,576	$66	$148
st35774	Inyo	36.0	-117.2	Proxy		Dry	200	27.3%	479	$4,841	$66	$155
st36724	San Berna	35.6	-116.2	Pre-Existing (BLM)		Dry	200	24.7%	433	$4,665	$66	$166
st36725	San Berna	35.7	-116.2	Pre-Existing (BLM)		Dry	200	24.7%	433	$4,673	$66	$167
st36726	San Berna	35.7	-116.2	Pre-Existing (BLM)		Dry	200	24.7%	433	$4,824	$66	$171
st36734	Inyo	35.8	-116.2	Proxy		Dry	200	25.4%	446	$4,713	$66	$163
st36748	San Berna	35.7	-116.2	Pre-Existing (BLM)		Dry	200	26.1%	458	$4,736	$66	$159
st36895	Inyo	35.8	-116.0	Proxy		Dry	200	26.4%	463	$4,611	$66	$154
st36970	Inyo	36.0	-116.0	Proxy		Dry	200	26.5%	465	$4,556	$66	$152
st36971	Inyo	36.0	-116.0	Proxy		Dry	200	26.5%	465	$4,504	$66	$151
st36994	Inyo	36.0	-115.9	Proxy		Dry	200	26.5%	465	$4,419	$66	$148
st37015	Inyo	36.0	-115.9	Proxy		Dry	200	26.5%	465	$4,436	$66	$149
st37016	Inyo	36.0	-115.9	Proxy		Dry	200	26.5%	465	$4,300	$66	$145
st37017	Inyo	36.0	-115.9	Proxy		Dry	200	26.5%	465	$4,577	$66	$152
st37038	Inyo	36.0	-115.9	Proxy		Dry	200	25.7%	450	$4,533	$66	$156
st37039	Inyo	36.0	-115.9	Proxy		Dry	200	25.7%	450	$4,315	$66	$151
st37061	Inyo	36.0	-115.9	Proxy		Dry	200	25.7%	450	$4,564	$66	$157
st37259	San Berna	35.8	-115.6	Proxy		Dry	200	25.7%	450	$4,314	$66	$151
st37261	Inyo	35.8	-115.6	Proxy		Dry	200	25.6%	449	$4,338	$66	$151
st37280	San Berna	35.7	-115.6	Pre-Existing (BLM)		Dry	200	25.7%	450	$4,302	$66	$150
st37281	San Berna	35.7	-115.6	Pre-Existing (BLM)		Dry	200	25.7%	450	$4,300	$66	$150
st37282	San Berna	35.8	-115.6	Pre-Existing (BLM)		Dry	200	25.7%	450	$4,300	$66	$150
st37283	San Berna	35.8	-115.6	Proxy		Dry	200	25.7%	450	$4,300	$66	$150
st37303	San Berna	35.7	-115.6	Pre-Existing (BLM)		Dry	200	25.7%	450	$4,301	$66	$150
st37304	San Berna	35.7	-115.6	Pre-Existing (BLM)		Dry	200	25.7%	450	$4,301	$66	$150
st37305	San Berna	35.8	-115.6	Pre-Existing (BLM)		Dry	200	25.7%	450	$4,300	$66	$150
st37326	San Berna	35.7	-115.6	Pre-Existing (BLM)		Dry	200	24.4%	428	$4,301	$66	$158
st37327	San Berna	35.7	-115.6	Pre-Existing (BLM)		Dry	200	24.4%	428	$4,330	$66	$159
st37328	San Berna	35.8	-115.6	Pre-Existing (BLM)		Dry	200	24.4%	428	$4,300	$66	$158
st37348	San Berna	35.7	-115.5	Pre-Existing (BLM)		Dry	200	24.4%	428	$4,429	$66	$161
st37349	San Berna	35.7	-115.5	Pre-Existing (BLM)		Dry	200	24.4%	428	$4,613	$66	$167
st37350	San Berna	35.7	-115.5	Pre-Existing (BLM)		Dry	200	24.4%	428	$4,606	$66	$166
st37370	San Berna	35.7	-115.5	Pre-Existing (BLM)		Dry	200	26.4%	463	$5,192	$66	$169
st37371	San Berna	35.7	-115.5	Pre-Existing (BLM)		Dry	200	24.4%	428	$5,062	$66	$179
st37372	San Berna	35.7	-115.5	Pre-Existing (BLM)		Dry	200	24.4%	428	$4,779	$66	$171
st37387	San Berna	35.5	-115.5	Pre-Existing (BLM)		Dry	200	26.4%	463	$5,717	$66	$183
st37388	San Berna	35.6	-115.5	Pre-Existing (BLM)		Dry	200	26.4%	463	$5,623	$66	$181
st37394	San Berna	35.7	-115.5	Pre-Existing (BLM)		Dry	200	24.4%	428	$5,197	$66	$183
st37410	San Berna	35.5	-115.5	Pre-Existing (BLM)		Dry	200	26.2%	459	$5,314	$66	$174
st37411	San Berna	35.6	-115.5	Pre-Existing (BLM)		Dry	200	26.2%	459	$5,222	$66	$171
st37432	San Berna	35.5	-115.4	Pre-Existing (BLM)		Dry	200	26.2%	459	$4,572	$66	$154
st37433	San Berna	35.5	-115.4	Pre-Existing (BLM)		Dry	200	26.2%	459	$4,394	$66	$149
st37434	San Berna	35.6	-115.4	Pre-Existing (BLM)		Dry	200	26.2%	459	$5,217	$66	$171
st37435	San Berna	35.6	-115.4	Pre-Existing (BLM)		Dry	200	26.2%	459	$4,901	$66	$163
st37455	San Berna	35.5	-115.4	Pre-Existing (BLM)		Dry	200	26.2%	459	$4,300	$66	$147
st37456	San Berna	35.5	-115.4	Pre-Existing (BLM)		Dry	200	26.2%	459	$4,515	$66	$153
st37457	San Berna	35.6	-115.4	Pre-Existing (BLM)		Dry	200	26.2%	459	$4,639	$66	$156
st37458	San Berna	35.6	-115.4	Pre-Existing (BLM)		Dry	200	26.2%	459	$4,508	$66	$152
st37480	San Berna	35.6	-115.4	Pre-Existing (PPA)		Dry	200	26.2%	459	$4,497	$66	$152
st37504	San Berna	35.6	-115.4	Pre-Existing (BLM)		Dry	200	25.1%	441	$4,686	$66	$164
st37505	San Berna	35.6	-115.4	Pre-Existing (BLM)		Dry	200	25.1%	441	$4,318	$66	$154
st37526	San Berna	35.6	-115.3	Pre-Existing (BLM)		Dry	200	25.1%	441	$4,994	$66	$172
st37527	San Berna	35.6	-115.3	Pre-Existing (BLM)		Dry	200	25.1%	441	$4,635	$66	$162
st37549	San Berna	35.6	-115.3	Pre-Existing (BLM)		Dry	200	25.1%	441	$4,864	$66	$169
st38886	Monterey	36.2	-120.9	Proxy	Yes	Dry	200	19.6%	343	$4,939	$66	$220
st38979	Monterey	36.1	-120.9	Proxy	Yes	Dry	200	19.9%	348	$4,930	$66	$216
st38980	Monterey	36.2	-120.9	Proxy	Yes	Dry	200	19.9%	348	$4,875	$66	$214
st39000	Monterey	36.1	-120.8	Proxy	Yes	Dry	200	20.0%	350	$5,536	$66	$235
st39196	Fresno	36.2	-120.6	Proxy	Yes	Dry	200	20.2%	353	$4,830	$66	$209
st39219	Fresno	36.1	-120.6	Proxy	Yes	Dry	200	20.2%	353	$4,632	$66	$203
st39272	Fresno	36.3	-120.6	Proxy	Yes	Dry	200	19.4%	341	$5,107	$66	$227
st41804	Inyo	36.5	-118.0	Proxy		Dry	200	25.7%	450	$4,560	$66	$157
st41817	Inyo	36.3	-118.0	Proxy		Dry	200	23.7%	416	$4,637	$66	$172
st41820	Inyo	36.3	-118.0	Proxy		Dry	200	24.1%	422	$4,664	$66	$170
st41821	Inyo	36.4	-118.0	Proxy		Dry	200	24.1%	422	$4,626	$66	$169
st41822	Inyo	36.4	-118.0	Proxy		Dry	200	24.1%	422	$4,600	$66	$169
st41826	Inyo	36.5	-118.0	Proxy		Dry	200	25.0%	438	$4,476	$66	$159
st41827	Inyo	36.5	-118.0	Proxy		Dry	200	25.0%	438	$4,524	$66	$161
st41828	Inyo	36.5	-118.0	Proxy		Dry	200	25.7%	450	$4,543	$66	$156
st41844	Inyo	36.3	-118.0	Proxy		Dry	200	25.6%	448	$4,632	$66	$160
st41845	Inyo	36.4	-118.0	Proxy		Dry	200	25.6%	448	$4,588	$66	$158
st41848	Inyo	36.4	-118.0	Proxy		Dry	200	25.3%	444	$4,513	$66	$158
st41849	Inyo	36.4	-118.0	Proxy		Dry	200	25.3%	444	$4,523	$66	$158
st41850	Inyo	36.5	-118.0	Proxy		Dry	200	25.3%	444	$4,440	$66	$156
st41851	Inyo	36.5	-118.0	Proxy		Dry	200	25.3%	444	$4,479	$66	$157

RETI Phase 1B Draft Report
Appendix E
Solar Thermal Projects

Project ID	County	Lat	Long	Type	Williamson Act Intersection	Cooling	MW	CF, %	Generation, GWh/yr	Capital Cost, $/kWac	Fixed O&M, $/kWac-yr	LCOE, $/MWh
st41852	Inyo	36.5	-118.0	Proxy		Dry	200	26.8%	470	$4,487	$66	$148
st41868	Inyo	36.3	-117.9	Proxy		Dry	200	25.6%	448	$4,650	$66	$160
st41869	Inyo	36.4	-117.9	Proxy		Dry	200	25.6%	448	$4,514	$66	$156
st41870	Inyo	36.4	-117.9	Proxy		Dry	200	25.6%	448	$4,505	$66	$156
st41871	Inyo	36.4	-117.9	Proxy		Dry	200	25.3%	444	$4,595	$66	$160
st41872	Inyo	36.4	-117.9	Proxy		Dry	200	25.3%	444	$4,552	$66	$159
st41873	Inyo	36.4	-117.9	Proxy		Dry	200	25.3%	444	$4,565	$66	$159
st41876	Inyo	36.5	-117.9	Proxy		Dry	200	26.8%	470	$4,479	$66	$148
st41893	Inyo	36.4	-117.9	Proxy		Dry	200	25.6%	448	$4,695	$66	$161
st41894	Inyo	36.4	-117.9	Proxy		Dry	200	25.6%	448	$4,505	$66	$156
st41895	Inyo	36.4	-117.9	Proxy		Dry	200	25.3%	444	$4,587	$66	$160
st41896	Inyo	36.4	-117.9	Proxy		Dry	200	25.3%	444	$4,566	$66	$159
st41899	Inyo	36.5	-117.9	Proxy		Dry	200	25.3%	444	$4,444	$66	$156
st41919	Inyo	36.4	-117.9	Proxy		Dry	200	25.3%	444	$4,587	$66	$160
st41920	Inyo	36.4	-117.9	Proxy		Dry	200	25.3%	444	$4,482	$66	$157
st41922	Inyo	36.5	-117.9	Proxy		Dry	200	25.3%	444	$4,437	$66	$156
st42505	Inyo	36.1	-117.3	Proxy		Dry	200	26.6%	466	$4,615	$66	$153
st42506	Inyo	36.1	-117.3	Proxy		Dry	200	26.6%	466	$4,573	$66	$152
st42527	Inyo	36.1	-117.3	Proxy		Dry	200	27.1%	475	$4,610	$66	$150
st42528	Inyo	36.1	-117.3	Proxy		Dry	200	27.1%	475	$4,476	$66	$147
st43313	Inyo	36.4	-116.5	Proxy		Dry	200	25.2%	442	$4,547	$66	$160
st43353	Inyo	36.3	-116.4	Proxy		Dry	200	26.1%	456	$4,732	$66	$159
st43359	Inyo	36.4	-116.4	Proxy		Dry	200	25.2%	442	$4,635	$66	$162
st43376	Inyo	36.3	-116.4	Proxy		Dry	200	26.1%	456	$4,662	$66	$158
st43377	Inyo	36.3	-116.4	Proxy		Dry	200	26.1%	456	$4,563	$66	$155
st43378	Inyo	36.3	-116.4	Proxy		Dry	200	25.3%	443	$4,556	$66	$160
st43379	Inyo	36.3	-116.4	Proxy		Dry	200	25.3%	443	$4,555	$66	$160
st43380	Inyo	36.3	-116.4	Proxy		Dry	200	25.3%	443	$4,552	$66	$159
st43381	Inyo	36.4	-116.4	Proxy		Dry	200	25.3%	443	$4,605	$66	$161
st43382	Inyo	36.4	-116.4	Proxy		Dry	200	25.3%	443	$4,689	$66	$163
st43402	Inyo	36.3	-116.4	Proxy		Dry	200	25.1%	440	$4,490	$66	$159
st43403	Inyo	36.3	-116.4	Proxy		Dry	200	25.3%	443	$4,491	$66	$158
st43424	Inyo	36.3	-116.4	Proxy		Dry	200	25.1%	440	$4,488	$66	$159
st43425	Inyo	36.3	-116.4	Proxy		Dry	200	25.1%	440	$4,507	$66	$159
st43426	Inyo	36.3	-116.4	Proxy		Dry	200	25.1%	440	$4,572	$66	$161
st43452	Inyo	36.3	-116.3	Proxy		Dry	200	25.9%	453	$4,523	$66	$155
st43605	Inyo	36.0	-116.2	Proxy		Dry	200	26.9%	471	$4,530	$66	$149
st47337	Inyo	37.0	-118.3	Proxy		Dry	200	23.0%	403	$4,756	$66	$181
st47356	Inyo	36.9	-118.2	Proxy		Dry	200	23.0%	403	$4,669	$66	$178
st47359	Inyo	37.0	-118.2	Proxy		Dry	200	23.0%	403	$4,483	$66	$173
st47360	Inyo	37.0	-118.2	Proxy		Dry	200	23.0%	403	$4,460	$66	$172
st47398	Inyo	36.8	-118.2	Proxy		Dry	200	26.0%	455	$4,641	$66	$158
st47399	Inyo	36.8	-118.2	Proxy		Dry	200	26.0%	455	$4,430	$66	$152
st47419	Inyo	36.8	-118.2	Proxy		Dry	200	25.4%	445	$4,611	$66	$160
st47420	Inyo	36.8	-118.2	Proxy		Dry	200	25.4%	445	$4,467	$66	$156
st47421	Inyo	36.8	-118.2	Proxy		Dry	200	26.0%	455	$4,320	$66	$149
st47422	Inyo	36.8	-118.2	Proxy		Dry	200	26.0%	455	$4,300	$66	$148
st47441	Inyo	36.7	-118.1	Proxy		Dry	200	25.4%	445	$4,332	$66	$153
st47442	Inyo	36.8	-118.1	Proxy		Dry	200	25.4%	445	$4,300	$66	$152
st47443	Inyo	36.8	-118.1	Proxy		Dry	200	25.4%	445	$4,300	$66	$152
st47444	Inyo	36.8	-118.1	Proxy		Dry	200	26.0%	455	$4,300	$66	$148
st47462	Inyo	36.7	-118.1	Proxy		Dry	200	25.4%	445	$4,353	$66	$153
st47463	Inyo	36.7	-118.1	Proxy		Dry	200	25.4%	445	$4,346	$66	$153
st47464	Inyo	36.7	-118.1	Proxy		Dry	200	25.4%	445	$4,344	$66	$153
st47482	Inyo	36.6	-118.1	Proxy		Dry	200	24.0%	421	$6,103	$66	$212
st47483	Inyo	36.7	-118.1	Proxy		Dry	200	24.0%	421	$5,062	$66	$182
st47484	Inyo	36.7	-118.1	Proxy		Dry	200	24.0%	421	$4,402	$66	$163
st47485	Inyo	36.7	-118.1	Proxy		Dry	200	25.4%	445	$4,301	$66	$152
st47489	Inyo	36.8	-118.1	Proxy		Dry	200	25.4%	445	$4,820	$66	$166
st47504	Inyo	36.6	-118.1	Proxy		Dry	200	27.4%	480	$4,561	$66	$147
st47505	Inyo	36.6	-118.1	Proxy		Dry	200	27.4%	480	$4,525	$66	$146
st47506	Inyo	36.7	-118.1	Proxy		Dry	200	27.4%	480	$4,464	$66	$145
st47508	Inyo	36.7	-118.1	Proxy		Dry	200	27.9%	489	$4,391	$66	$140
st47509	Inyo	36.7	-118.1	Proxy		Dry	200	27.9%	489	$4,398	$66	$141
st47524	Inyo	36.6	-118.0	Proxy		Dry	200	25.7%	450	$4,672	$66	$160
st47525	Inyo	36.6	-118.0	Proxy		Dry	200	25.7%	450	$4,522	$66	$156
st47527	Inyo	36.6	-118.0	Proxy		Dry	200	27.4%	480	$4,387	$66	$143
st47528	Inyo	36.6	-118.0	Proxy		Dry	200	27.4%	480	$4,424	$66	$144
st47547	Inyo	36.6	-118.0	Proxy		Dry	200	25.7%	450	$4,573	$66	$157
st47549	Inyo	36.6	-118.0	Proxy		Dry	200	27.4%	480	$4,463	$66	$145
st47592	Inyo	36.5	-118.0	Proxy		Dry	200	26.8%	470	$4,484	$66	$148
st47593	Inyo	36.6	-118.0	Proxy		Dry	200	26.8%	470	$4,637	$66	$152
st47615	Inyo	36.5	-117.9	Proxy		Dry	200	26.8%	470	$4,510	$66	$149
st52739	Inyo	37.4	-118.6	Proxy		Dry	200	23.6%	413	$4,696	$66	$175
st52740	Inyo	37.4	-118.6	Proxy		Dry	200	23.6%	413	$4,732	$66	$176
st52830	Inyo	37.4	-118.5	Proxy		Dry	200	24.8%	435	$4,450	$66	$159

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Appendix E
Solar Thermal Projects

Project ID	County	Lat	Long	Type	Williamson Act Intersection	Cooling	MW	CF, %	Generation, GWh/yr	Capital Cost, $/kWac	Fixed O&M, $/kWac-yr	LCOE, $/MWh
st52852	Inyo	37.4	-118.5	Proxy		Dry	200	24.8%	434	$4,622	$66	$165
st52853	Inyo	37.4	-118.5	Proxy		Dry	200	24.8%	435	$4,582	$66	$163
st52919	Inyo	37.3	-118.4	Proxy		Dry	200	25.0%	438	$4,506	$66	$160
st52939	Inyo	37.3	-118.4	Proxy		Dry	200	22.7%	398	$4,618	$66	$179
st52940	Inyo	37.3	-118.4	Proxy		Dry	200	22.7%	398	$4,591	$66	$178
st52941	Inyo	37.3	-118.4	Proxy		Dry	200	25.0%	438	$4,528	$66	$160
st52942	Inyo	37.3	-118.4	Proxy		Dry	200	25.0%	438	$4,492	$66	$159
st52943	Inyo	37.3	-118.4	Proxy		Dry	200	25.0%	438	$4,486	$66	$159
st52961	Inyo	37.2	-118.3	Proxy		Dry	200	22.7%	398	$4,300	$66	$170
st52962	Inyo	37.3	-118.3	Proxy		Dry	200	22.7%	398	$4,300	$66	$170
st52965	Inyo	37.3	-118.3	Proxy		Dry	200	25.0%	438	$4,550	$66	$161
st52966	Inyo	37.3	-118.3	Proxy		Dry	200	25.0%	438	$4,532	$66	$160
st52967	Inyo	37.4	-118.3	Proxy		Dry	200	25.0%	438	$4,461	$66	$158
st52985	Inyo	37.3	-118.3	Proxy		Dry	200	22.7%	398	$4,306	$66	$170
st52986	Inyo	37.3	-118.3	Proxy		Dry	200	22.7%	398	$4,375	$66	$172
st53005	Inyo	37.2	-118.3	Proxy		Dry	200	26.2%	458	$4,383	$66	$150
st53048	Inyo	37.1	-118.2	Proxy		Dry	200	24.9%	437	$4,707	$66	$166
st53240	Inyo	37.3	-118.0	Proxy		Dry	200	24.7%	432	$4,357	$66	$158
st53264	Inyo	37.3	-118.0	Proxy		Dry	200	24.7%	432	$4,585	$66	$164
st53387	Mono	37.5	-117.9	Proxy		Dry	200	25.6%	449	$4,343	$66	$152
st53409	Mono	37.5	-117.9	Proxy		Dry	200	25.6%	449	$4,362	$66	$152
st53430	Inyo	37.4	-117.8	Proxy		Dry	200	25.6%	449	$4,493	$66	$156
st53431	Inyo	37.5	-117.8	Proxy		Dry	200	25.6%	449	$4,353	$66	$152
st57959	Mono	37.9	-119.1	Proxy		Dry	200	22.7%	398	$4,700	$66	$182
st57982	Mono	37.9	-119.1	Proxy		Dry	200	22.7%	398	$4,667	$66	$181
st58203	Mono	37.7	-118.8	Proxy		Dry	200	24.0%	421	$4,626	$66	$170
st58223	Mono	37.6	-118.8	Proxy		Dry	200	22.9%	402	$4,777	$66	$182
st58226	Mono	37.7	-118.8	Proxy		Dry	200	24.0%	421	$4,741	$66	$173
st58248	Mono	37.7	-118.8	Proxy		Dry	200	22.9%	402	$4,600	$66	$177
st58249	Mono	37.7	-118.8	Proxy		Dry	200	24.3%	426	$4,646	$66	$168
st58272	Mono	37.7	-118.7	Proxy		Dry	200	24.3%	426	$4,563	$66	$166
st59046	Mono	37.5	-117.9	Proxy		Dry	200	24.2%	425	$4,518	$66	$165
st63447	Mono	38.2	-119.3	Proxy		Dry	200	22.1%	387	$4,840	$66	$191
st63448	Mono	38.2	-119.3	Proxy		Dry	200	22.1%	387	$4,505	$66	$181
st63449	Mono	38.2	-119.3	Proxy		Dry	200	22.1%	387	$4,568	$66	$183
st63450	Mono	38.3	-119.3	Proxy		Dry	200	22.1%	387	$4,672	$66	$186
st63470	Mono	38.2	-119.3	Proxy		Dry	200	22.1%	387	$4,759	$66	$189
st63471	Mono	38.2	-119.3	Proxy		Dry	200	22.1%	387	$4,549	$66	$182
st63719	Mono	38.1	-119.0	Proxy		Dry	200	23.8%	417	$4,633	$66	$172
st63766	Mono	38.1	-118.9	Proxy		Dry	200	23.8%	417	$4,666	$66	$172
st63790	Mono	38.2	-118.9	Proxy		Dry	200	23.8%	417	$4,839	$66	$177
st68271	Mono	38.6	-119.5	Proxy		Dry	200	21.3%	373	$4,486	$66	$187
st68292	Mono	38.6	-119.5	Proxy		Dry	200	21.3%	373	$5,119	$66	$207
st68293	Mono	38.6	-119.5	Proxy		Dry	200	21.3%	373	$5,113	$66	$207
st75765	Sierra	39.7	-120.4	Proxy	Yes	Dry	200	19.7%	346	$4,323	$66	$196
st75812	Plumas	39.7	-120.4	Proxy	Yes	Dry	200	19.2%	337	$4,708	$66	$215
st75834	Plumas	39.7	-120.3	Proxy	Yes	Dry	200	19.2%	337	$4,357	$66	$203
st75855	Plumas	39.7	-120.3	Proxy	Yes	Dry	200	19.2%	337	$4,346	$66	$202
st75860	Plumas	39.8	-120.3	Proxy	Yes	Dry	200	19.6%	344	$4,403	$66	$200
st75882	Plumas	39.8	-120.3	Proxy	Yes	Dry	200	19.6%	344	$4,688	$66	$210
st75944	Plumas	39.7	-120.2	Proxy	Yes	Dry	200	19.6%	344	$4,408	$66	$200
st75945	Plumas	39.8	-120.2	Proxy	Yes	Dry	200	19.6%	344	$4,301	$66	$196
st75969	Plumas	39.8	-120.2	Proxy	Yes	Dry	200	19.6%	343	$4,300	$66	$197
st76077	Lassen	39.8	-120.1	Proxy		Dry	200	19.5%	341	$4,586	$66	$208
st76081	Lassen	39.8	-120.1	Proxy		Dry	200	19.5%	341	$5,024	$66	$223
st76099	Lassen	39.8	-120.1	Proxy		Dry	200	19.5%	341	$4,595	$66	$208
st76102	Lassen	39.8	-120.1	Proxy		Dry	200	19.5%	341	$4,655	$66	$210
st76124	Lassen	39.8	-120.0	Proxy		Dry	200	19.5%	341	$4,915	$66	$220
st78618	Shasta	40.5	-121.8	Proxy		Dry	200	17.8%	311	$4,890	$66	$240
st78640	Shasta	40.5	-121.7	Proxy		Dry	200	17.8%	311	$4,655	$66	$231
st79047	Plumas	40.2	-121.3	Proxy		Dry	200	20.0%	350	$4,768	$66	$209
st79269	Lassen	40.3	-121.0	Proxy		Dry	200	19.8%	348	$5,092	$66	$222
st79270	Lassen	40.3	-121.0	Proxy		Dry	200	19.8%	348	$4,812	$66	$212
st79292	Lassen	40.3	-121.0	Proxy		Dry	200	19.8%	348	$4,578	$66	$204
st79338	Lassen	40.4	-121.0	Proxy		Dry	200	19.2%	336	$4,699	$66	$215
st79358	Lassen	40.3	-120.9	Proxy	Yes	Dry	200	19.2%	336	$5,330	$66	$238
st79392	Plumas	40.1	-120.9	Proxy	Yes	Dry	200	18.5%	324	$4,694	$66	$223
st79393	Plumas	40.1	-120.9	Proxy	Yes	Dry	200	18.5%	324	$5,352	$66	$247
st79394	Plumas	40.1	-120.9	Proxy	Yes	Dry	200	18.5%	324	$4,952	$66	$233
st79416	Plumas	40.1	-120.9	Proxy	Yes	Dry	200	18.3%	321	$4,390	$66	$214
st79754	Lassen	40.3	-120.5	Proxy		Dry	200	17.6%	308	$4,729	$66	$236
st79775	Lassen	40.3	-120.5	Proxy		Dry	200	17.6%	308	$4,621	$66	$232
st79797	Lassen	40.3	-120.5	Proxy		Dry	200	17.8%	312	$4,489	$66	$224
st79800	Lassen	40.4	-120.5	Proxy		Dry	200	17.8%	312	$5,069	$66	$246
st79802	Lassen	40.4	-120.5	Proxy		Dry	200	18.4%	322	$4,422	$66	$215
st79819	Lassen	40.3	-120.4	Proxy	Yes	Dry	200	17.8%	312	$4,458	$66	$222

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st79820	Lassen	40.3	-120.4	Proxy		Dry	200	17.8%	312	$5,294	$66	$255
st79828	Lassen	40.5	-120.4	Proxy		Dry	200	18.2%	319	$4,652	$66	$225
st79872	Lassen	40.5	-120.4	Proxy		Dry	200	18.2%	319	$4,894	$66	$234
st79938	Lassen	40.5	-120.3	Proxy		Dry	200	18.0%	315	$4,309	$66	$215
st79955	Lassen	40.4	-120.3	Proxy	Yes	Dry	200	17.5%	307	$4,710	$66	$236
st79959	Lassen	40.5	-120.3	Proxy		Dry	200	18.1%	318	$4,460	$66	$219
st79977	Lassen	40.4	-120.3	Proxy		Dry	200	17.8%	312	$4,566	$66	$227
st79980	Lassen	40.5	-120.3	Proxy		Dry	200	18.3%	320	$4,385	$66	$214
st79981	Lassen	40.5	-120.3	Proxy		Dry	200	18.3%	320	$4,300	$66	$211
st80002	Lassen	40.5	-120.2	Proxy		Dry	200	18.3%	320	$4,683	$66	$226
st80010	Lassen	40.1	-120.2	Proxy	Yes	Dry	200	17.7%	310	$4,523	$66	$227
st80011	Lassen	40.2	-120.2	Proxy	Yes	Dry	200	17.7%	310	$4,379	$66	$221
st80021	Lassen	40.4	-120.2	Pre-Existing (BLM)		Dry	200	17.8%	312	$6,228	$66	$291
st80023	Lassen	40.4	-120.2	Proxy	Yes	Dry	200	18.3%	320	$4,608	$66	$223
st80048	Lassen	40.5	-120.2	Proxy		Dry	200	17.8%	313	$4,597	$66	$227
st80070	Lassen	40.5	-120.2	Proxy		Dry	200	17.6%	309	$4,613	$66	$231
st80092	Lassen	40.5	-120.1	Proxy		Dry	200	17.6%	309	$4,668	$66	$233
st80115	Lassen	40.0	-120.1	Proxy		Dry	200	18.1%	317	$4,849	$66	$234
st80163	Lassen	40.1	-120.1	Proxy		Dry	200	18.4%	322	$4,555	$66	$219
st80168	Lassen	40.2	-120.1	Proxy		Dry	200	18.6%	326	$4,371	$66	$210
st80169	Lassen	40.2	-120.1	Proxy		Dry	200	18.6%	326	$4,328	$66	$208
st80185	Lassen	40.1	-120.0	Proxy		Dry	200	18.4%	322	$4,483	$66	$217
st80190	Lassen	40.2	-120.0	Proxy	Yes	Dry	200	18.6%	326	$4,427	$66	$212
st80206	Lassen	40.1	-120.0	Proxy		Dry	200	18.4%	322	$4,637	$66	$223
st82636	Shasta	40.8	-121.8	Proxy		Dry	200	18.1%	318	$5,107	$66	$243
st82645	Shasta	40.5	-121.8	Proxy		Dry	200	17.8%	311	$4,659	$66	$231
st82646	Shasta	40.5	-121.8	Proxy		Dry	200	17.8%	311	$4,691	$66	$232
st82668	Shasta	40.5	-121.8	Proxy		Dry	200	17.8%	311	$4,709	$66	$233
st82669	Shasta	40.6	-121.8	Proxy		Dry	200	17.8%	311	$4,792	$66	$236
st82689	Shasta	40.5	-121.7	Proxy		Dry	200	17.8%	311	$4,606	$66	$229
st82691	Shasta	40.6	-121.7	Proxy		Dry	200	17.8%	311	$4,725	$66	$233
st82713	Shasta	40.6	-121.7	Proxy		Dry	200	17.8%	311	$4,734	$66	$234
st82734	Shasta	40.5	-121.7	Proxy		Dry	200	17.8%	311	$4,809	$66	$237
st82771	Shasta	40.9	-121.7	Proxy		Dry	200	18.6%	326	$4,903	$66	$229
st82793	Shasta	40.9	-121.7	Proxy		Dry	200	18.6%	326	$4,550	$66	$216
st82794	Shasta	40.9	-121.7	Proxy		Dry	200	17.9%	314	$4,300	$66	$215
st82859	Shasta	40.9	-121.6	Proxy		Dry	200	18.0%	316	$4,468	$66	$220
st82880	Shasta	40.9	-121.6	Proxy		Dry	200	18.0%	316	$4,675	$66	$228
st83365	Lassen	40.9	-121.0	Proxy		Dry	200	17.7%	309	$4,407	$66	$223
st83499	Lassen	40.9	-120.9	Proxy	Yes	Dry	200	17.8%	313	$4,670	$66	$230
st83563	Lassen	40.9	-120.8	Proxy	Yes	Dry	200	17.8%	311	$4,826	$66	$237
st83585	Lassen	40.9	-120.8	Proxy	Yes	Dry	200	17.7%	310	$5,037	$66	$247
st83606	Lassen	40.9	-120.8	Proxy	Yes	Dry	200	17.7%	310	$4,882	$66	$240
st83627	Lassen	40.8	-120.7	Proxy	Yes	Dry	200	17.7%	310	$4,562	$66	$228
st83628	Lassen	40.9	-120.7	Proxy	Yes	Dry	200	17.7%	310	$4,308	$66	$218
st83648	Lassen	40.8	-120.7	Proxy	Yes	Dry	200	17.7%	310	$4,483	$66	$225
st83649	Lassen	40.8	-120.7	Proxy	Yes	Dry	200	17.7%	310	$4,302	$66	$218
st83651	Lassen	40.9	-120.7	Proxy	Yes	Dry	200	17.7%	310	$4,540	$66	$227
st83669	Lassen	40.8	-120.7	Proxy	Yes	Dry	200	17.7%	311	$4,935	$66	$242
st83670	Lassen	40.8	-120.7	Proxy	Yes	Dry	200	17.7%	311	$4,652	$66	$231
st83673	Lassen	40.9	-120.7	Proxy	Yes	Dry	200	17.7%	311	$4,606	$66	$229
st83674	Lassen	40.9	-120.7	Proxy	Yes	Dry	200	18.2%	319	$5,359	$66	$251
st83694	Lassen	40.9	-120.7	Proxy	Yes	Dry	200	17.7%	311	$4,778	$66	$236
st83702	Lassen	40.5	-120.6	Proxy	Yes	Dry	200	18.6%	326	$4,391	$66	$211
st83715	Lassen	40.8	-120.6	Proxy	Yes	Dry	200	17.7%	311	$4,978	$66	$244
st83737	Lassen	40.8	-120.6	Proxy	Yes	Dry	200	17.7%	311	$4,861	$66	$239
st83738	Lassen	40.9	-120.6	Proxy		Dry	200	17.7%	311	$4,334	$66	$219
st83760	Lassen	40.9	-120.6	Proxy		Dry	200	17.8%	311	$4,426	$66	$222
st83778	Lassen	40.8	-120.6	Proxy	Yes	Dry	200	19.3%	337	$4,926	$66	$223
st83780	Lassen	40.8	-120.6	Proxy	Yes	Dry	200	17.8%	311	$5,175	$66	$251
st83782	Lassen	40.9	-120.6	Proxy		Dry	200	17.8%	311	$4,691	$66	$232
st83819	Lassen	40.7	-120.5	Proxy	Yes	Dry	200	19.3%	337	$5,141	$66	$230
st83826	Lassen	40.9	-120.5	Proxy	Yes	Dry	200	17.8%	311	$4,409	$66	$221
st83841	Lassen	40.7	-120.5	Proxy	Yes	Dry	200	19.3%	337	$4,880	$66	$221
st83848	Lassen	40.9	-120.5	Proxy	Yes	Dry	200	17.8%	311	$4,570	$66	$227
st83860	Lassen	40.6	-120.5	Proxy	Yes	Dry	200	18.3%	321	$4,679	$66	$224
st83871	Lassen	40.9	-120.5	Proxy	Yes	Dry	200	18.3%	320	$4,560	$66	$221
st83879	Lassen	40.6	-120.4	Proxy	Yes	Dry	200	18.2%	319	$4,698	$66	$227
st83883	Lassen	40.7	-120.4	Proxy	Yes	Dry	200	18.3%	321	$4,609	$66	$222
st83891	Lassen	40.8	-120.4	Proxy	Yes	Dry	200	18.3%	320	$4,511	$66	$219
st83892	Lassen	40.9	-120.4	Proxy	Yes	Dry	200	18.3%	320	$4,300	$66	$211
st83893	Lassen	40.9	-120.4	Proxy	Yes	Dry	200	18.3%	320	$4,527	$66	$220
st83900	Lassen	40.5	-120.4	Proxy		Dry	200	18.2%	319	$4,685	$66	$226
st83901	Lassen	40.6	-120.4	Proxy		Dry	200	18.2%	319	$4,579	$66	$222
st83902	Lassen	40.6	-120.4	Proxy	Yes	Dry	200	18.2%	319	$4,670	$66	$226
st83913	Lassen	40.8	-120.4	Proxy	Yes	Dry	200	18.3%	320	$4,425	$66	$216

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Appendix E
Solar Thermal Projects

Project ID	County	Lat	Long	Type	Williamson Act Intersection	Cooling	MW	CF, %	Generation, GWh/yr	Capital Cost, $/kWac	Fixed O&M, $/kWac-yr	LCOE, $/MWh
st83915	Lassen	40.9	-120.4	Proxy	Yes	Dry	200	18.3%	320	$4,542	$66	$220
st83921	Lassen	40.5	-120.4	Proxy		Dry	200	18.2%	319	$4,575	$66	$222
st83922	Lassen	40.5	-120.4	Proxy		Dry	200	18.2%	319	$4,572	$66	$222
st83936	Lassen	40.9	-120.4	Proxy	Yes	Dry	200	18.3%	320	$4,302	$66	$211
st83943	Lassen	40.5	-120.4	Proxy		Dry	200	18.0%	315	$4,459	$66	$220
st83944	Lassen	40.5	-120.4	Proxy		Dry	200	18.0%	315	$4,371	$66	$217
st83951	Lassen	40.7	-120.4	Proxy	Yes	Dry	200	18.3%	320	$4,710	$66	$226
st83952	Lassen	40.7	-120.4	Proxy		Dry	200	18.3%	320	$4,721	$66	$227
st83954	Lassen	40.8	-120.4	Proxy	Yes	Dry	200	18.3%	320	$4,839	$66	$231
st83957	Lassen	40.8	-120.4	Proxy		Dry	200	17.5%	306	$4,300	$66	$220
st83958	Lassen	40.9	-120.4	Proxy	Yes	Dry	200	17.5%	306	$4,659	$66	$235
st83973	Lassen	40.7	-120.3	Proxy		Dry	200	18.3%	320	$4,604	$66	$222
st83974	Lassen	40.7	-120.3	Proxy		Dry	200	18.3%	320	$4,397	$66	$215
st83978	Lassen	40.8	-120.3	Proxy	Yes	Dry	200	17.5%	306	$4,301	$66	$220
st83979	Lassen	40.8	-120.3	Proxy	Yes	Dry	200	17.5%	306	$4,304	$66	$220
st83994	Lassen	40.7	-120.3	Proxy		Dry	200	18.4%	322	$4,648	$66	$223
st83995	Lassen	40.7	-120.3	Proxy		Dry	200	18.3%	320	$4,574	$66	$221
st83998	Lassen	40.8	-120.3	Proxy	Yes	Dry	200	18.3%	320	$5,162	$66	$244
st84000	Lassen	40.8	-120.3	Proxy	Yes	Dry	200	17.5%	306	$4,583	$66	$232
st84001	Lassen	40.8	-120.3	Proxy	Yes	Dry	200	17.5%	306	$4,516	$66	$229
st84002	Lassen	40.9	-120.3	Proxy	Yes	Dry	200	17.5%	306	$4,526	$66	$229
st84003	Lassen	40.9	-120.3	Proxy	Yes	Dry	200	17.5%	306	$4,478	$66	$227
st84004	Lassen	40.9	-120.3	Proxy	Yes	Dry	200	17.9%	314	$4,627	$66	$227
st84010	Lassen	40.5	-120.3	Proxy	Yes	Dry	200	18.0%	315	$4,314	$66	$215
st84016	Lassen	40.7	-120.3	Proxy		Dry	200	18.4%	322	$4,816	$66	$229
st84023	Lassen	40.8	-120.3	Proxy	Yes	Dry	200	17.5%	306	$4,501	$66	$228
st84024	Lassen	40.9	-120.3	Proxy	Yes	Dry	200	17.5%	306	$4,423	$66	$225
st84025	Lassen	40.9	-120.3	Proxy	Yes	Dry	200	17.5%	306	$4,438	$66	$226
st84026	Lassen	40.9	-120.3	Proxy	Yes	Dry	200	17.9%	314	$4,375	$66	$218
st84033	Lassen	40.6	-120.3	Proxy	Yes	Dry	200	17.8%	313	$4,438	$66	$221
st84046	Lassen	40.9	-120.3	Proxy	Yes	Dry	200	18.2%	319	$4,300	$66	$212
st84055	Lassen	40.6	-120.2	Proxy	Yes	Dry	200	17.8%	313	$4,354	$66	$218
st84065	Lassen	40.8	-120.2	Proxy	Yes	Dry	200	18.2%	319	$5,137	$66	$244
st84067	Lassen	40.8	-120.2	Proxy	Yes	Dry	200	18.2%	319	$4,301	$66	$212
st84068	Lassen	40.9	-120.2	Proxy	Yes	Dry	200	18.2%	319	$4,300	$66	$212
st84070	Lassen	40.9	-120.2	Proxy	Yes	Dry	200	18.0%	316	$4,684	$66	$228
st84072	Lassen	41.0	-120.2	Proxy		Dry	200	18.0%	316	$4,769	$66	$232
st84091	Lassen	40.9	-120.2	Proxy	Yes	Dry	200	18.2%	319	$4,300	$66	$212
st84092	Lassen	40.9	-120.2	Proxy	Yes	Dry	200	18.0%	316	$4,630	$66	$226
st84110	Lassen	40.8	-120.2	Proxy	Yes	Dry	200	18.2%	319	$5,036	$66	$240
st84157	Lassen	40.9	-120.1	Proxy	Yes	Dry	200	17.9%	313	$4,495	$66	$223
st84176	Lassen	40.8	-120.1	Proxy	Yes	Dry	200	17.9%	313	$4,984	$66	$242
st84240	Lassen	40.8	-120.1	Proxy		Dry	200	18.8%	329	$4,610	$66	$217
st84262	Lassen	40.8	-120.0	Proxy		Dry	200	18.8%	329	$4,416	$66	$209
st86644	Siskiyou	41.4	-121.9	Proxy		Dry	200	19.9%	348	$4,831	$66	$212
st86682	Siskiyou	41.3	-121.8	Proxy		Dry	200	18.0%	316	$4,556	$66	$223
st86980	Shasta	41.0	-121.5	Proxy		Dry	200	17.8%	311	$5,015	$66	$245
st87024	Shasta	41.0	-121.5	Proxy		Dry	200	18.0%	316	$4,608	$66	$226
st87047	Shasta	41.1	-121.4	Proxy		Dry	200	18.0%	316	$4,328	$66	$215
st87091	Shasta	41.1	-121.4	Proxy		Dry	200	18.0%	315	$4,325	$66	$216
st87114	Shasta	41.1	-121.4	Proxy		Dry	200	17.7%	310	$4,327	$66	$219
st87134	Lassen	41.0	-121.3	Proxy		Dry	200	18.0%	315	$4,501	$66	$222
st87252	Modoc	41.2	-121.2	Proxy		Dry	200	18.0%	315	$4,695	$66	$230
st87273	Modoc	41.2	-121.2	Proxy		Dry	200	18.0%	315	$4,300	$66	$215
st87295	Modoc	41.2	-121.2	Proxy		Dry	200	17.7%	310	$4,309	$66	$218
st87311	Lassen	41.1	-121.1	Proxy	Yes	Dry	200	18.2%	319	$4,583	$66	$222
st87312	Lassen	41.1	-121.1	Proxy	Yes	Dry	200	17.9%	313	$4,507	$66	$224
st87317	Modoc	41.2	-121.1	Proxy		Dry	200	17.7%	310	$4,528	$66	$227
st87333	Lassen	41.1	-121.1	Proxy	Yes	Dry	200	18.2%	319	$4,443	$66	$217
st87342	Modoc	41.3	-121.1	Proxy		Dry	200	17.7%	310	$4,424	$66	$223
st87354	Lassen	41.0	-121.1	Proxy		Dry	200	18.2%	319	$4,676	$66	$226
st87355	Lassen	41.1	-121.1	Proxy	Yes	Dry	200	18.2%	319	$4,428	$66	$216
st87358	Lassen	41.1	-121.1	Proxy	Yes	Dry	200	17.9%	313	$4,388	$66	$219
st87384	Modoc	41.2	-121.1	Proxy		Dry	200	18.3%	321	$4,656	$66	$224
st87491	Lassen	41.2	-120.9	Proxy	Yes	Dry	200	18.2%	318	$4,418	$66	$217
st87699	Modoc	41.4	-120.7	Proxy		Dry	200	17.8%	311	$4,379	$66	$220
st87745	Modoc	41.4	-120.7	Proxy		Dry	200	17.4%	306	$4,300	$66	$221
st87746	Modoc	41.5	-120.7	Proxy		Dry	200	17.4%	306	$4,515	$66	$229
st87767	Modoc	41.4	-120.7	Proxy		Dry	200	17.4%	306	$4,755	$66	$239
st87768	Modoc	41.5	-120.7	Proxy		Dry	200	17.4%	306	$4,882	$66	$244
st87837	Lassen	41.0	-120.6	Proxy		Dry	200	18.0%	316	$5,416	$66	$256
st87851	Modoc	41.3	-120.6	Proxy		Dry	200	17.1%	299	$5,145	$66	$260
st87852	Modoc	41.4	-120.6	Proxy		Dry	200	17.1%	299	$4,417	$66	$231
st87860	Lassen	41.0	-120.5	Proxy		Dry	200	18.0%	316	$4,807	$66	$233
st87874	Modoc	41.4	-120.5	Proxy		Dry	200	17.1%	299	$4,858	$66	$249
st87881	Lassen	41.0	-120.5	Proxy		Dry	200	18.0%	316	$4,425	$66	$218

RETI Phase 1B Draft Report
Appendix E
Solar Thermal Projects

Project ID	County	Lat	Long	Type	Williamson Act Intersection	Cooling	MW	CF, %	Generation, GWh/yr	Capital Cost, $/kWac	Fixed O&M, $/kWac-yr	LCOE, $/MWh
st87882	Lassen	41.0	-120.5	Proxy		Dry	200	18.0%	316	$4,894	$66	$236
st87889	Modoc	41.2	-120.5	Proxy		Dry	200	17.0%	298	$4,613	$66	$239
st87896	Modoc	41.4	-120.5	Proxy		Dry	200	17.1%	299	$5,153	$66	$261
st87897	Modoc	41.4	-120.5	Proxy		Dry	200	17.1%	299	$4,812	$66	$247
st87903	Lassen	41.0	-120.5	Proxy	Yes	Dry	200	18.0%	316	$4,951	$66	$238
st87904	Lassen	41.0	-120.5	Proxy	Yes	Dry	200	18.0%	316	$4,649	$66	$227
st87918	Modoc	41.4	-120.5	Proxy		Dry	200	17.1%	299	$4,706	$66	$242
st87926	Lassen	41.0	-120.5	Proxy	Yes	Dry	200	18.3%	321	$4,558	$66	$220
st87934	Modoc	41.2	-120.5	Proxy		Dry	200	17.1%	300	$4,477	$66	$232
st87936	Modoc	41.3	-120.5	Proxy		Dry	200	17.1%	300	$4,620	$66	$238
st87988	Modoc	41.5	-120.4	Proxy		Dry	200	17.2%	302	$4,715	$66	$240
st88007	Modoc	41.4	-120.4	Proxy		Dry	200	17.5%	307	$4,611	$66	$232
st88125	Lassen	41.1	-120.2	Proxy	Yes	Dry	200	18.4%	322	$5,037	$66	$237
st88327	Lassen	41.2	-120.0	Proxy		Dry	200	17.9%	313	$5,254	$66	$252
st88328	Lassen	41.2	-120.0	Proxy		Dry	200	17.9%	313	$4,500	$66	$223
st88350	Lassen	41.2	-120.0	Proxy		Dry	200	17.9%	313	$4,504	$66	$223
st88359	Modoc	41.4	-120.0	Proxy		Dry	200	17.9%	314	$4,464	$66	$221
st17290	San Berna	34.2	-115.0	Pre-Existing (RFI)		Dry	200	25.8%	452	$4,324	$66	$150
st17384	San Berna	34.2	-114.9	Pre-Existing (RFI)		Dry	200	26.8%	470	$4,833	$66	$157
st17358	San Berna	34.1	-115.0	Pre-Existing (RFI)		Dry	200	26.8%	470	$4,471	$66	$148
st17334	San Berna	34.1	-115.0	Pre-Existing (RFI)		Dry	200	26.8%	470	$4,423	$66	$147
st17313	San Berna	34.2	-115.0	Pre-Existing (RFI)		Dry	200	26.2%	460	$4,479	$66	$152
st17410	San Berna	34.2	-114.9	Pre-Existing (RFI)		Dry	200	27.3%	479	$4,968	$66	$158
st17314	San Berna	34.2	-115.0	Pre-Existing (RFI)		Dry	200	25.8%	452	$4,593	$66	$157
st17338	San Berna	34.2	-115.0	Pre-Existing (RFI)		Dry	200	27.3%	479	$4,850	$66	$155
st17385	San Berna	34.2	-114.9	Pre-Existing (RFI)		Dry	200	26.8%	470	$4,915	$66	$159
st17361	San Berna	34.2	-115.0	Pre-Existing (RFI)		Dry	200	26.8%	470	$4,844	$66	$158
st17337	San Berna	34.2	-115.0	Pre-Existing (RFI)		Dry	200	26.8%	470	$4,647	$66	$153
st17336	San Berna	34.2	-115.0	Pre-Existing (RFI)		Dry	200	26.8%	470	$4,513	$66	$149
st17383	San Berna	34.1	-114.9	Pre-Existing (RFI)		Dry	200	26.8%	470	$4,708	$66	$154
st17360	San Berna	34.2	-115.0	Pre-Existing (RFI)		Dry	200	26.8%	470	$4,695	$66	$154
st17335	San Berna	34.1	-115.0	Pre-Existing (RFI)		Dry	200	26.8%	470	$4,484	$66	$148
st17359	San Berna	34.1	-115.0	Pre-Existing (RFI)		Dry	200	26.8%	470	$4,542	$66	$150
st17386	San Berna	34.2	-114.9	Pre-Existing (RFI)		Dry	200	27.3%	479	$4,980	$66	$158
st17362	San Berna	34.2	-115.0	Pre-Existing (RFI)		Dry	200	27.3%	479	$4,876	$66	$155
st2268	Imperial	32.8	-115.2	Pre-Existing (RFI)		Dry	200	26.2%	458	$4,354	$66	$149
st28213	Kern	35.3	-118.0	Pre-Existing (RFI)	Yes	Dry	200	27.1%	476	$4,647	$66	$151
Out of State												
solnvaz_3				Pre-Existing		Dry	2,388	27.5%	5754	$4,711	$66	$150
solnvaz_4				Pre-Existing		Dry	575	27.5%	1385	$4,711	$66	$151
solnvaz_5				Pre-Existing		Dry	907	27.4%	2179	$4,711	$66	$151
solnvaz_6				Pre-Existing		Dry	2,103	26.9%	4949	$4,711	$66	$154
solnvaz_7				Pre-Existing		Dry	10,482	27.7%	25426	$4,711	$66	$149
solnvaz_8				Pre-Existing		Dry	10,694	28.0%	26271	$4,711	$66	$148
solnvaz_9				Pre-Existing		Dry	1,467	27.0%	3463	$4,711	$66	$153
solnvaz_10				Pre-Existing		Dry	2,458	27.3%	5886	$4,711	$66	$151
solnvaz_13				Pre-Existing		Dry	3,784	27.2%	9029	$4,711	$66	$152
solnvaz_14				Pre-Existing		Dry	691	26.4%	1599	$4,711	$66	$157
solnvaz_15				Pre-Existing		Dry	710	25.1%	1565	$4,711	$66	$165
solnvaz_16				Pre-Existing		Dry	749	26.0%	1708	$4,711	$66	$159
solnvaz_17				Pre-Existing		Dry	5,936	25.7%	13365	$4,711	$66	$161
solnvaz_18				Pre-Existing		Dry	2,442	25.7%	5499	$4,711	$66	$161
solnvaz_19				Pre-Existing		Dry	4,866	25.7%	10958	$4,711	$66	$161
solnvaz_20				Pre-Existing		Dry	102	25.8%	230	$4,711	$66	$161
solnvaz_21				Pre-Existing		Dry	472	26.9%	1114	$4,711	$66	$154
solnvaz_22				Pre-Existing		Dry	624	25.9%	1417	$4,711	$66	$160
solnvaz_23				Pre-Existing		Dry	1,009	26.2%	2312	$4,711	$66	$158
solnvaz_24				Pre-Existing		Dry	100	23.7%	208	$4,711	$66	$174
solnvaz_25				Pre-Existing		Dry	159	23.7%	331	$4,711	$66	$174
solnvaz_26				Pre-Existing		Dry	1,077	25.9%	2439	$4,711	$66	$160
solnvaz_27				Pre-Existing		Dry	40	25.4%	89	$4,711	$66	$163
solnvaz_28				Pre-Existing		Dry	156	26.0%	356	$4,711	$66	$159
solnvaz_29				Pre-Existing		Dry	2,444	23.7%	5078	$4,711	$66	$174
solnvaz_30				Pre-Existing		Dry	4,966	26.0%	11295	$4,711	$66	$159
solnvaz_31				Pre-Existing		Dry	3,957	25.7%	8906	$4,711	$66	$161
solnvaz_32				Pre-Existing		Dry	402	23.7%	836	$4,711	$66	$174
solnvaz_33				Pre-Existing		Dry	51	23.7%	106	$4,711	$66	$174
solnvaz_34				Pre-Existing		Dry	3,932	25.5%	8779	$4,711	$66	$162
solnvaz_35				Pre-Existing		Dry	4,935	23.7%	10265	$4,711	$66	$174
solnvaz_36				Pre-Existing		Dry	1,658	24.4%	3549	$4,711	$66	$169
solnvaz_37				Pre-Existing		Dry	2,386	25.7%	5372	$4,711	$66	$161
solnvaz_38				Pre-Existing		Dry	1,215	23.3%	2482	$4,711	$66	$177
solnvaz_39				Pre-Existing		Dry	786	24.0%	1649	$4,711	$66	$173